

Data File : VU032774.D  
Acq On : 17 Jun 2019 11:48  
Operator : JC/SP  
Sample : VSTD10034  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

Quant Time: Jun 18 01:39:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 01:34:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 216938   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 212290   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 120163   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 147477 | 103.54 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 118205 | 103.52 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.27  | 63  | 301286 | 107.52 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.16  | 46  | 259615 | 219.75 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.64  | 84  | 293728 | 109.57 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.30  | 65  | 192638 | 112.64 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.33  | 84  | 567029 | 102.32 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.32  | 67  | 179511 | 102.70 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.56  | 98  | 539162 | 102.97 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.84  | 79  | 96312  | 114.45 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.30  | 63  | 179266 | 217.40 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42 | 84  | 278549 | 110.10 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 229263 | 99.41  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |         |      | Qvalue |
|--------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 212138 | 105.569 | ug/L | 100    |
| 3) Chloromethane               | 1.32 | 50  | 194287 | 101.843 | ug/L | 98     |
| 5) Vinyl chloride              | 1.40 | 62  | 194502 | 101.681 | ug/L | 100    |
| 6) Bromomethane                | 1.61 | 94  | 113374 | 100.158 | ug/L | 100    |
| 8) Chloroethane                | 1.69 | 64  | 110443 | 97.750  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 269938 | 103.483 | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 141582 | 104.571 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 134779 | 103.265 | ug/L | 94     |
| 13) Acetone                    | 2.32 | 43  | 321816 | 246.665 | ug/L | 99     |
| 14) Carbon disulfide           | 2.47 | 76  | 420653 | 105.436 | ug/L | 100    |
| 15) Methyl Acetate             | 2.61 | 43  | 192558 | 109.769 | ug/L | 100    |
| 16) Methylene chloride         | 2.69 | 84  | 157344 | 105.117 | ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.97 | 96  | 145010 | 102.751 | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.99 | 73  | 480474 | 103.727 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 280865 | 107.668 | ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 162418 | 102.182 | ug/L | 97     |
| 22) 2-Butanone                 | 4.25 | 43  | 362288 | 242.805 | ug/L | 100    |
| 23) Bromochloromethane         | 4.54 | 128 | 84039  | 101.565 | ug/L | 98     |
| 25) Chloroform                 | 4.66 | 83  | 288391 | 107.279 | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 240072 | 111.548 | ug/L | 100    |
| 29) Cyclohexane                | 4.99 | 56  | 249426 | 98.871  | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.91 | 97  | 255414 | 105.009 | ug/L | 99     |
| 31) Carbon tetrachloride       | 5.13 | 117 | 234351 | 104.881 | ug/L | 100    |
| 33) Benzene                    | 5.38 | 78  | 606910 | 101.119 | ug/L | 100    |
| 34) Trichloroethene            | 6.18 | 95  | 158350 | 97.191  | ug/L | 98     |
| 35) Methylcyclohexane          | 6.41 | 83  | 258716 | 98.650  | ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.42 | 63  | 165138 | 102.665 | ug/L | 100    |
| 38) Bromodichloromethane       | 6.75 | 83  | 223368 | 107.404 | ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.26 | 75  | 273773 | 108.551 | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.45 | 43  | 545010 | 213.737 | ug/L | 99     |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

Quant Time: Jun 18 01:39:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 01:34:42 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.63  | 91   | 665245   | 101.329 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 250749   | 110.924 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 153042   | 101.588 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.22  | 164  | 132915   | 99.014  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 479879   | 225.300 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.47  | 129  | 191317   | 108.453 | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 174428   | 102.920 | ug/L  | 100      |
| 51) Chlorobenzene              | 9.11  | 112  | 425521   | 100.532 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.24  | 91   | 746648   | 102.273 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.37  | 106  | 282889   | 102.070 | ug/L  | 99       |
| 54) o-xylene                   | 9.77  | 106  | 279759   | 101.876 | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 490205   | 106.344 | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.16 | 105  | 754874   | 104.159 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 282542   | 109.063 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 222687   | 107.043 | ug/L  | 99       |
| 61) Bromoform                  | 9.95  | 173  | 153062   | 104.917 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 357047   | 97.979  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 368414   | 98.175  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 366147   | 99.217  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 73752    | 116.928 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 293691   | 103.018 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 265944   | 110.219 | ug/L  | 100      |
| 69) Naphthalene                | 13.74 | 128  | 872925   | 115.325 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 275372   | 108.921 | ug/L  | 98       |

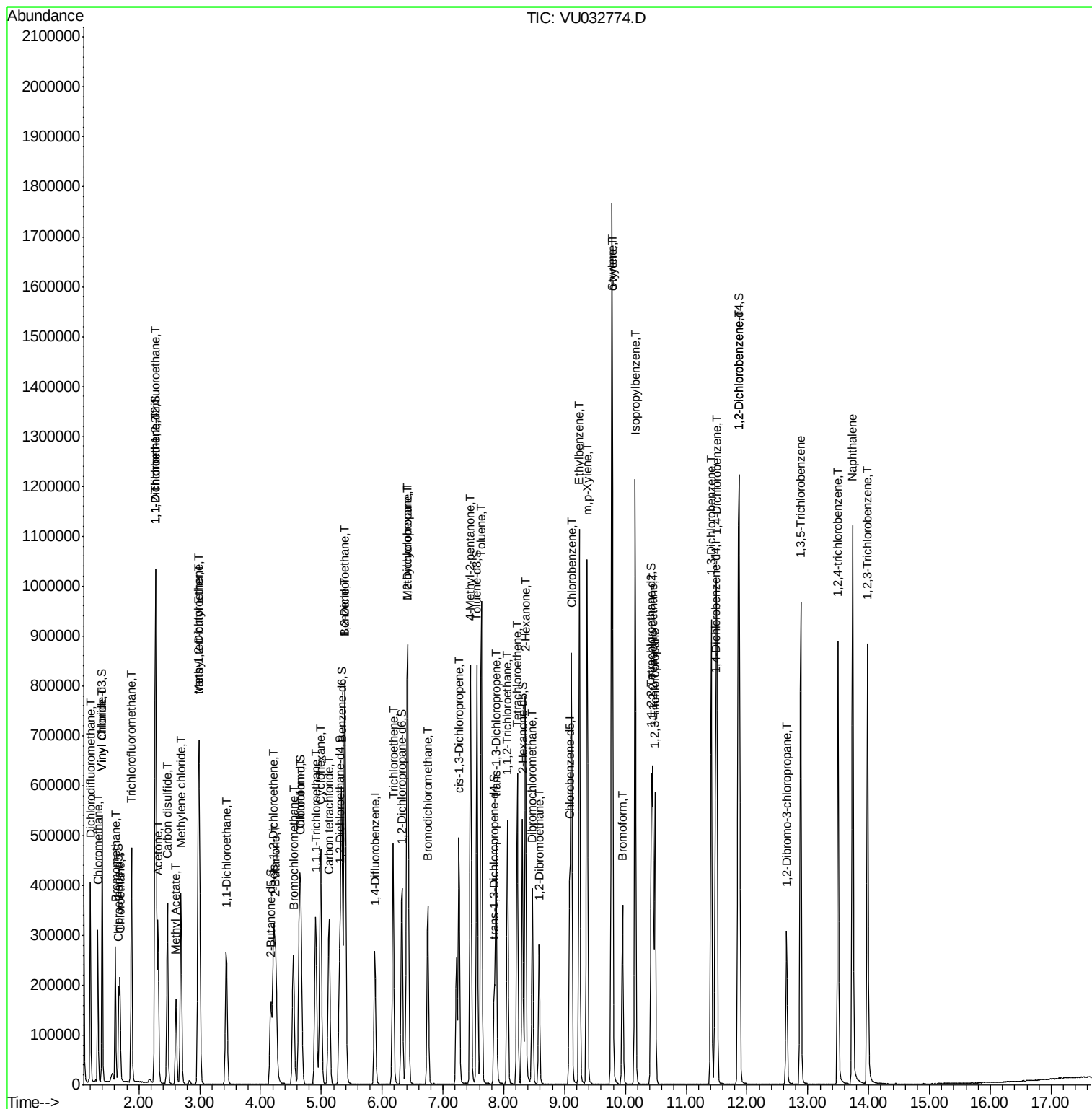
(#) = qualifier out of range (m) = manual integration (+) = signals summed

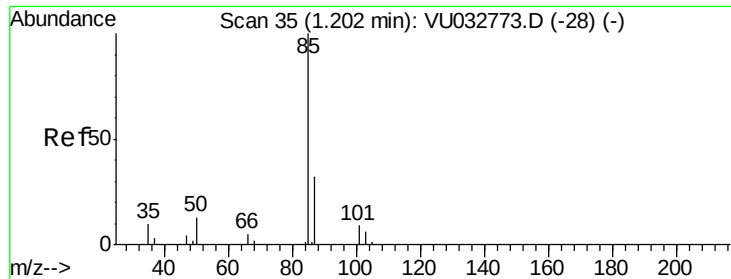
Data File : VU032774.D

```
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ALS Vial     : 5      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD10034

Quant Time: Jun 18 01:39:16 2019  
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Quant Title : VOC Analysis  
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#2

Dichlorodifluoromethane

Concen: 105.569 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

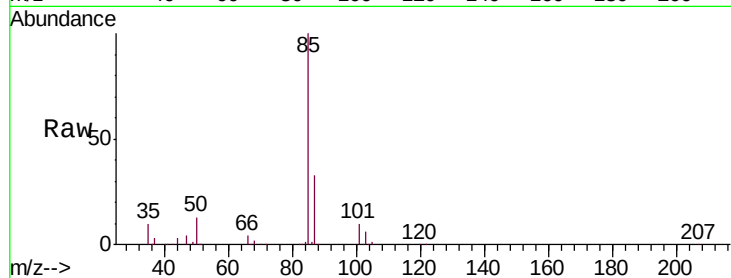
VSTD10034

Tgt Ion: 85 Resp: 212138

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032773.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032773.D (-28) (-)

250000

200000

150000

100000

50000

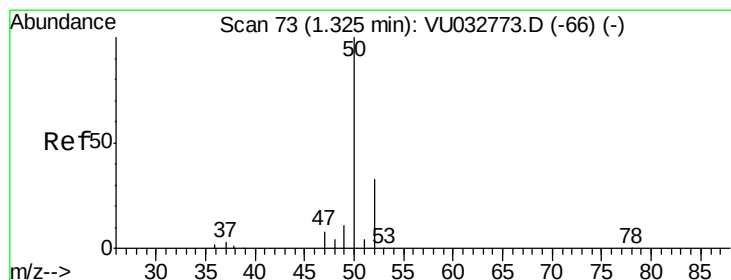
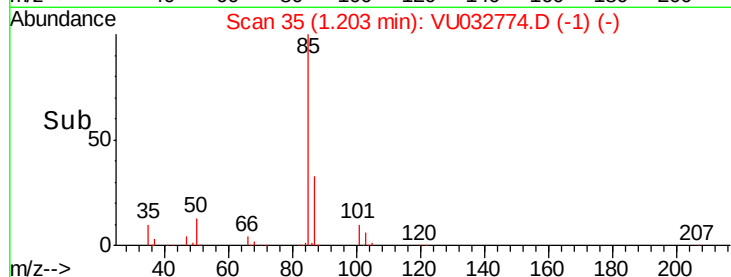
0

1.15

1.20

1.25

Time-->



#3

Chloromethane

Concen: 101.843 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032774.D

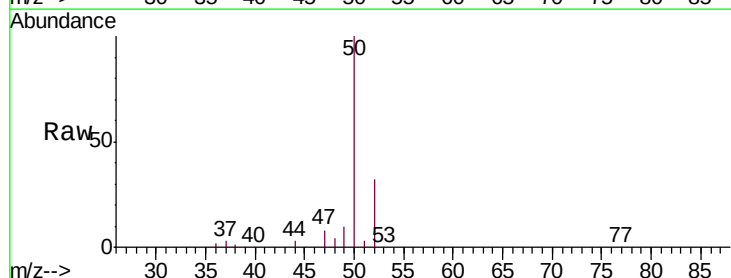
Acq: 17 Jun 2019 11:48

Tgt Ion: 50 Resp: 194287

Ion Ratio Lower Upper

50 100

52 31.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032773.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032773.D (-66) (-)

200000

150000

100000

50000

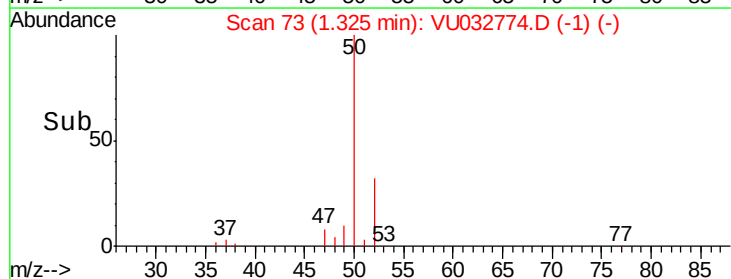
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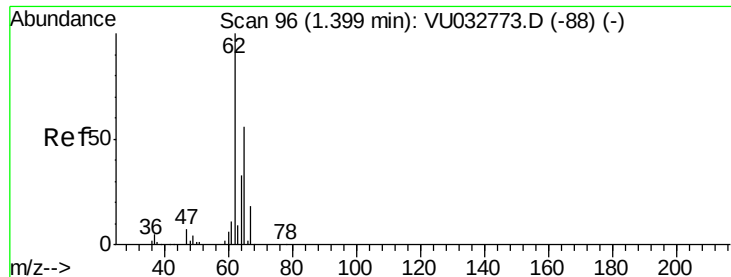
1.30

1.32

1.35

Time-->





#5

Vinyl chloride

Concen: 101.681 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

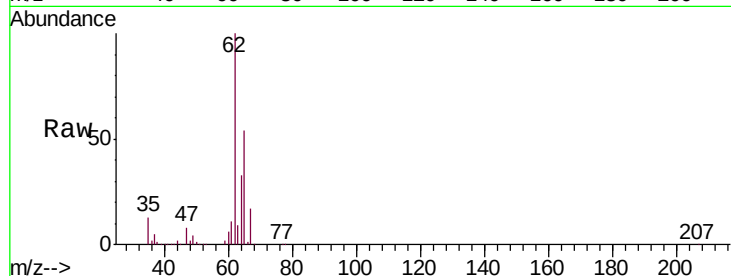
VSTD10034

Tgt Ion: 62 Resp: 194502

Ion Ratio Lower Upper

62 100

64 32.6 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU032773.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032774.D (-72) (-)

1.40

200000

150000

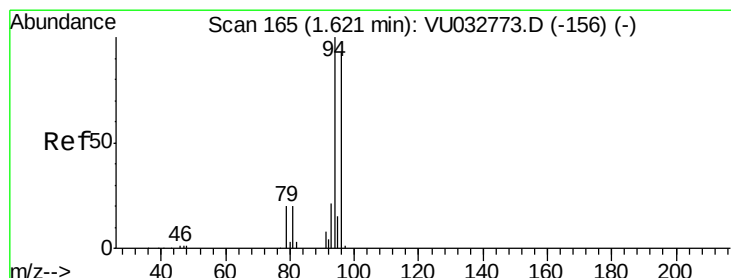
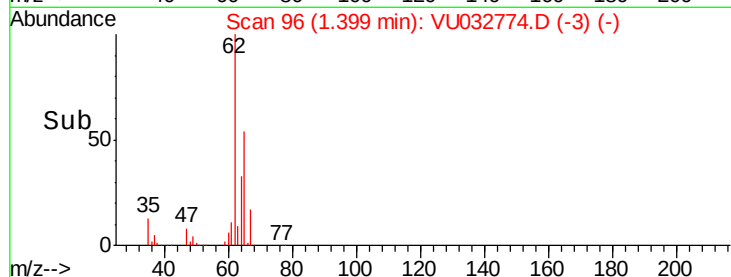
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 100.158 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU032774.D

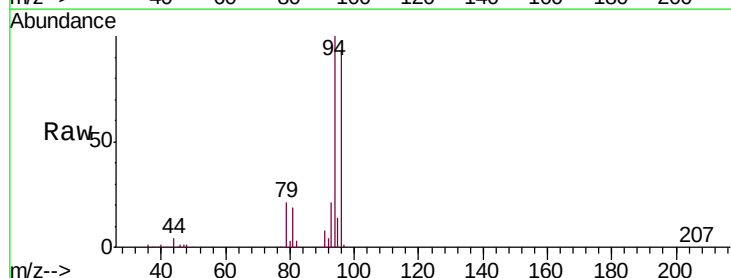
Acq: 17 Jun 2019 11:48

Tgt Ion: 94 Resp: 113374

Ion Ratio Lower Upper

94 100

96 93.0 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU032773.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU032774.D (-72) (-)

1.61

100000

80000

60000

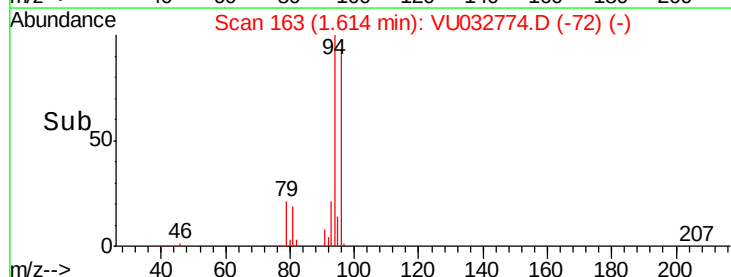
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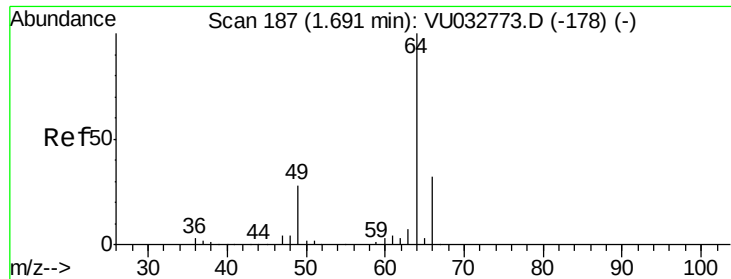
20000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 97.750 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

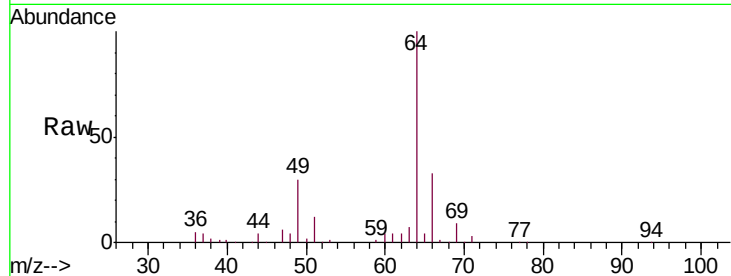
VSTD10034

Tgt Ion: 64 Resp: 110443

Ion Ratio Lower Upper

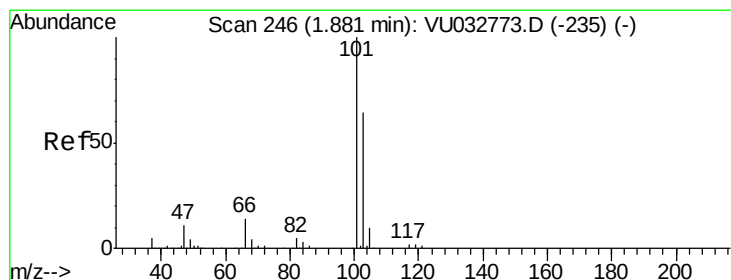
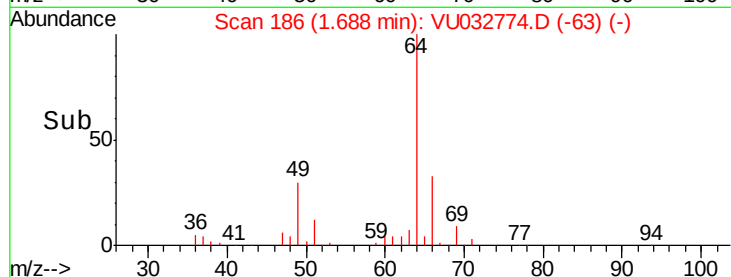
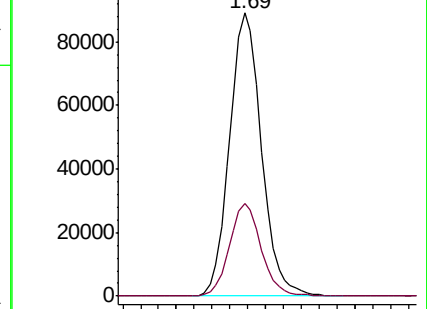
64 100

66 32.9 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU032773.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU032773.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 103.483 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU032774.D

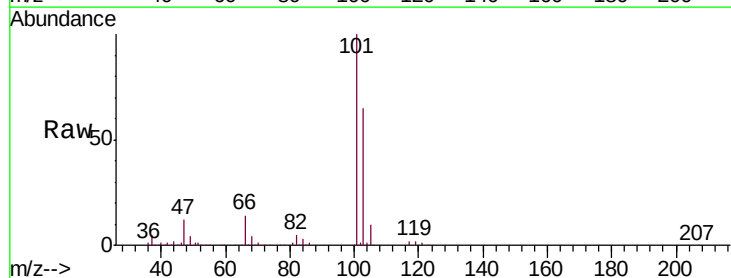
Acq: 17 Jun 2019 11:48

Tgt Ion: 101 Resp: 269938

Ion Ratio Lower Upper

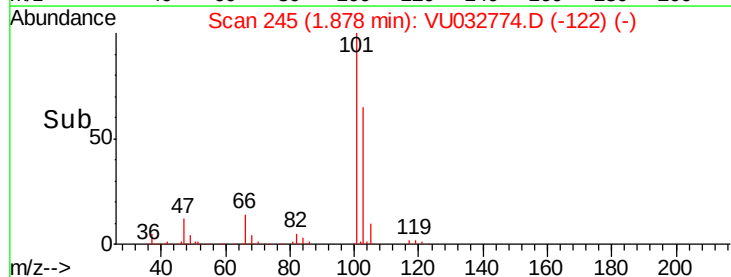
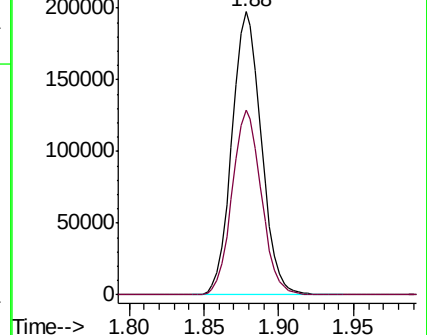
101 100

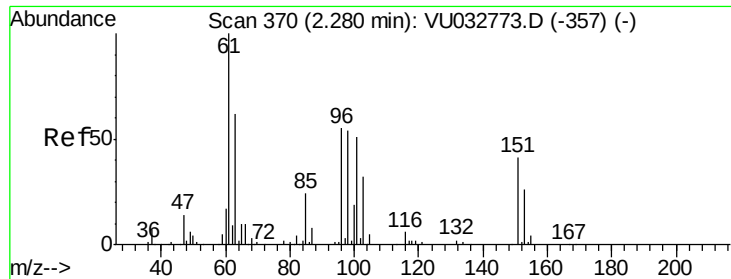
103 65.1 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU032773.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032773.D (-235) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 104.571 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

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ClientSampleId :

VSTD10034

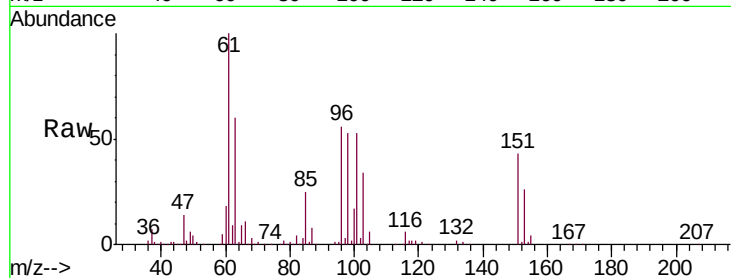
Tgt Ion:101 Resp: 141582

Ion Ratio Lower Upper

101 100

85 45.8 36.8 55.2

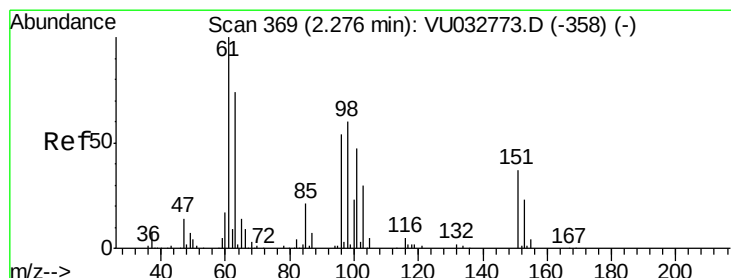
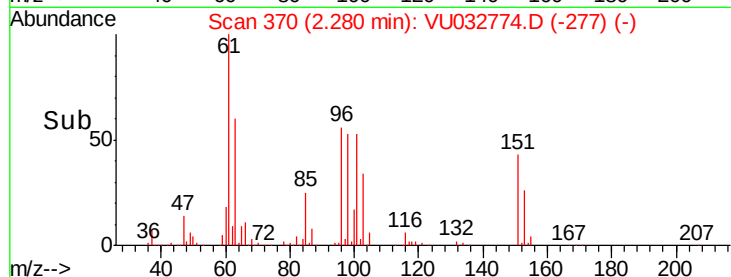
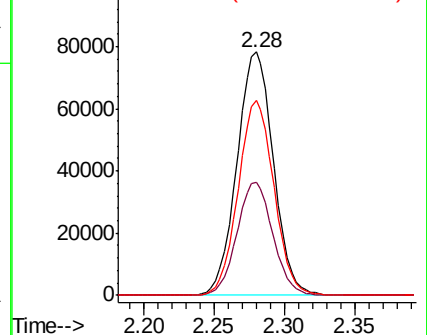
151 78.8 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 103.265 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

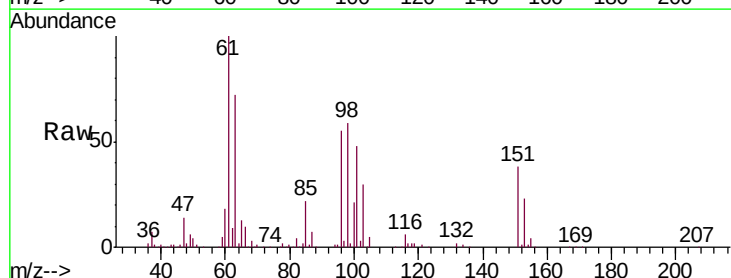
Tgt Ion: 96 Resp: 134779

Ion Ratio Lower Upper

96 100

61 183.4 131.0 243.4

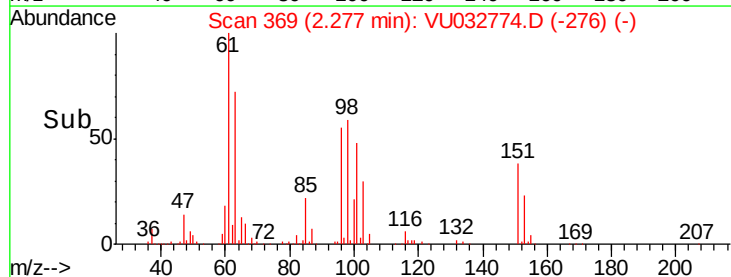
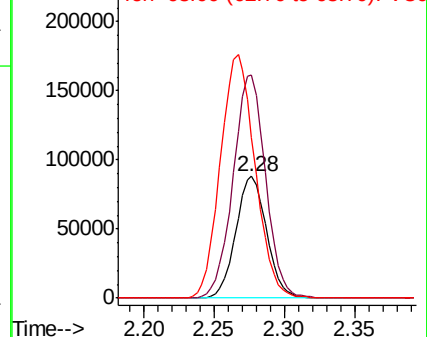
63 132.2 101.0 187.6

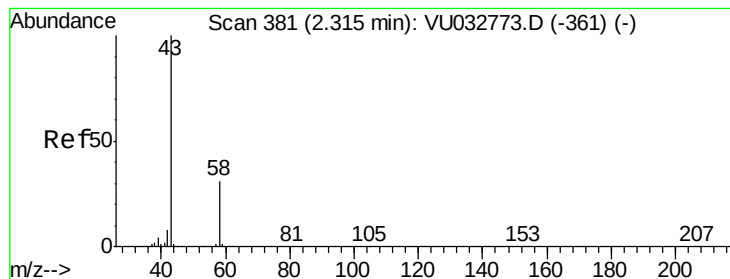


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 246.665 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

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Instrument :

MSVOA\_U

ClientSampleId :

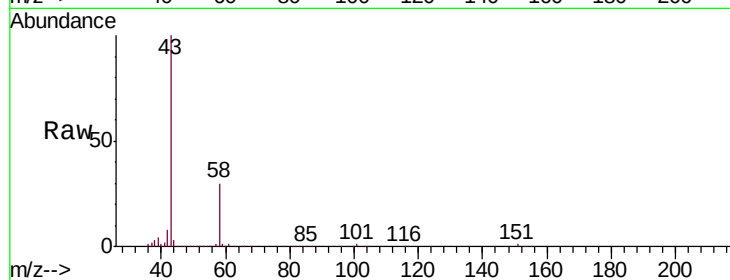
VSTD10034

Tgt Ion: 43 Resp: 321816

Ion Ratio Lower Upper

43 100

58 29.6 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU032773.D (-361) (-)

Ion 58.00 (57.70 to 58.70): VU032773.D (-361) (-)

2.32

200000

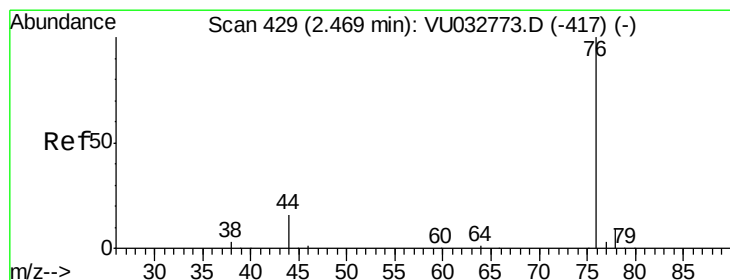
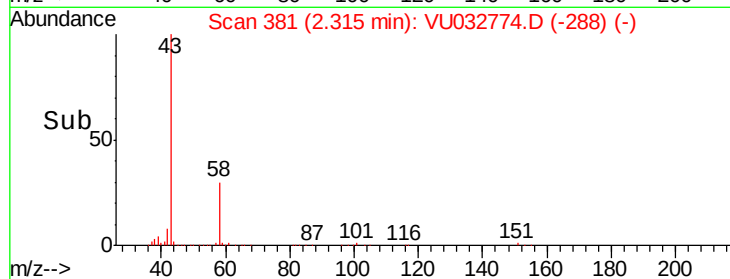
150000

100000

50000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 105.436 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032774.D

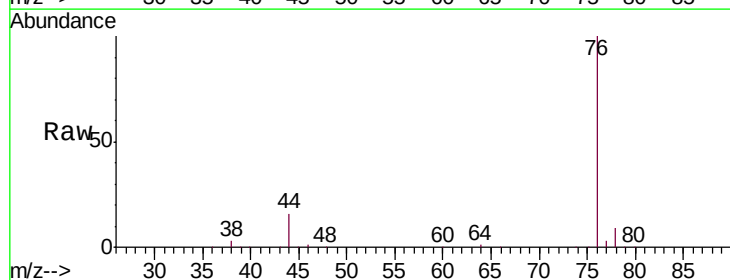
Acq: 17 Jun 2019 11:48

Tgt Ion: 76 Resp: 420653

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU032773.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU032773.D (-417) (-)

2.47

300000

250000

200000

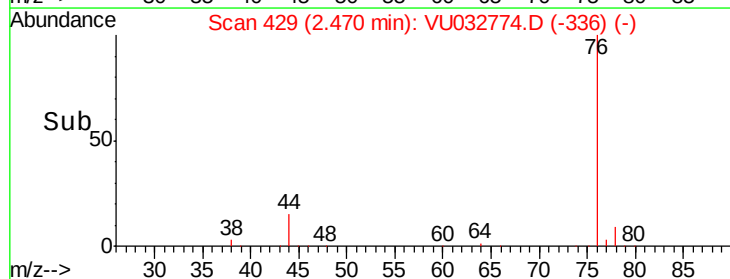
150000

100000

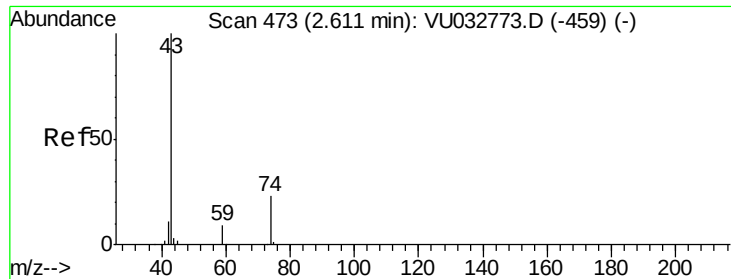
50000

0

Time--> 2.40 2.45 2.50 2.55



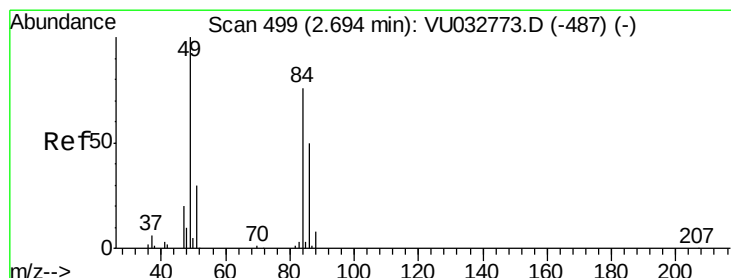
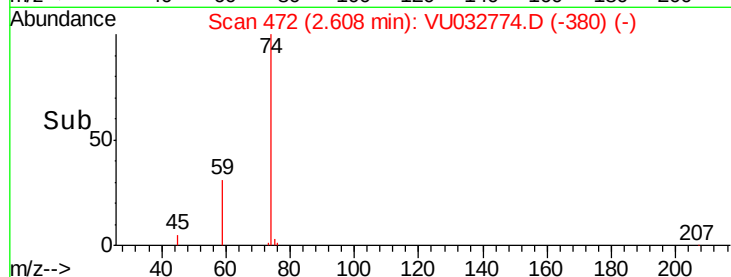
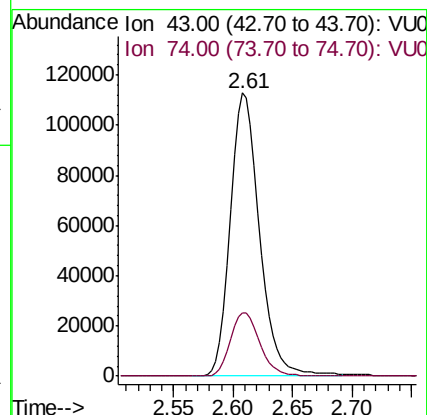
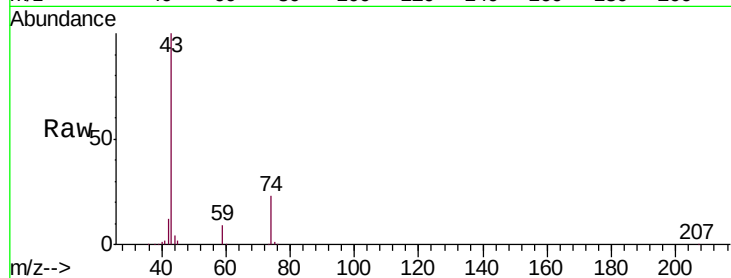




#15  
Methyl Acetate  
Concen: 109.769 ug/L  
RT: 2.61 min Scan# 472  
Delta R.T. -0.00 min  
Lab File: VU032774.D  
Acq: 17 Jun 2019 11:48

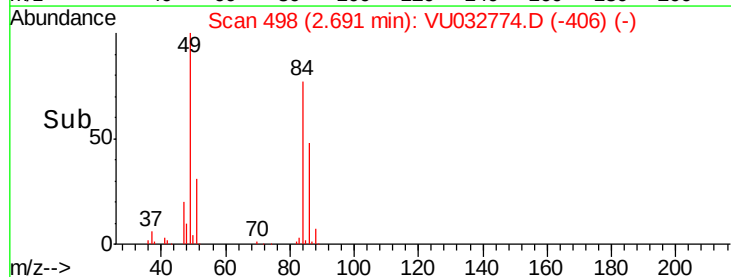
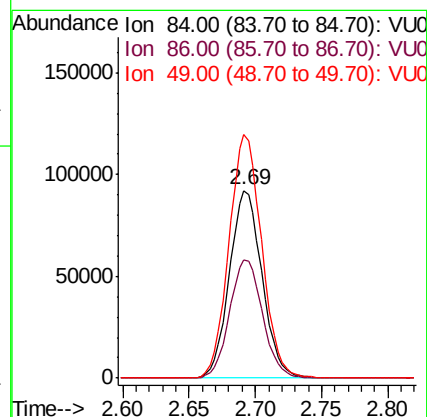
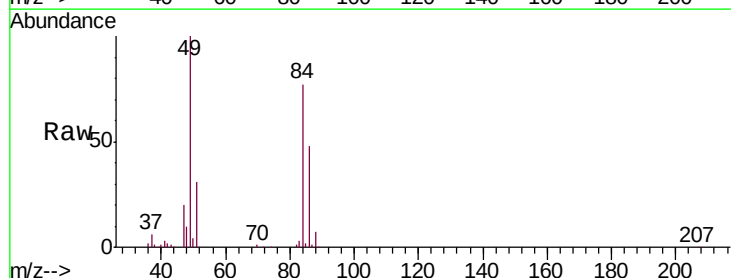
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

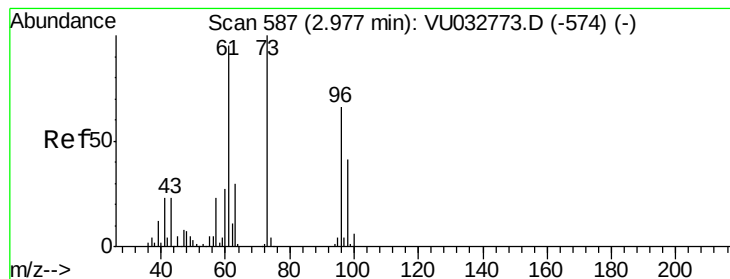
Tgt Ion: 43 Resp: 192558  
Ion Ratio Lower Upper  
43 100  
74 22.6 18.1 27.1



#16  
Methylene chloride  
Concen: 105.117 ug/L  
RT: 2.69 min Scan# 498  
Delta R.T. -0.00 min  
Lab File: VU032774.D  
Acq: 17 Jun 2019 11:48

Tgt Ion: 84 Resp: 157344  
Ion Ratio Lower Upper  
84 100  
86 62.9 45.5 84.5  
49 130.0 92.1 171.1





#17

trans-1,2-Dichloroethene

Concen: 102.751 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

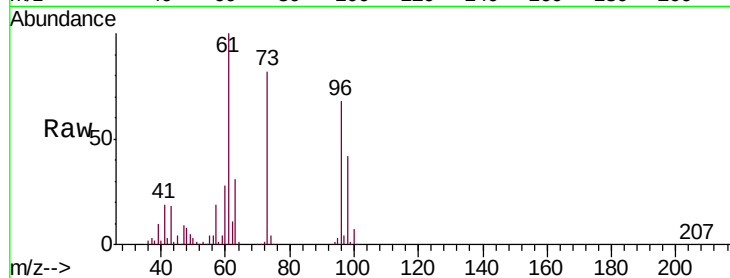
Tgt Ion: 96 Resp: 145010

Ion Ratio Lower Upper

96 100

61 147.4 100.9 187.5

98 62.4 44.0 81.8

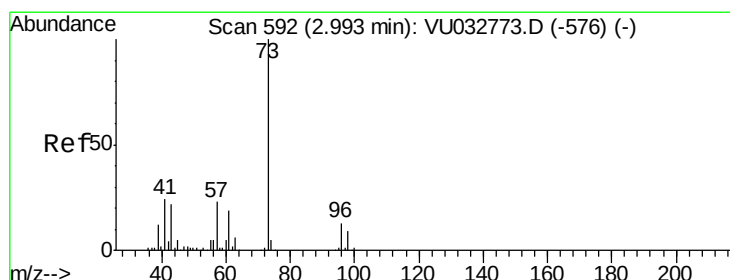
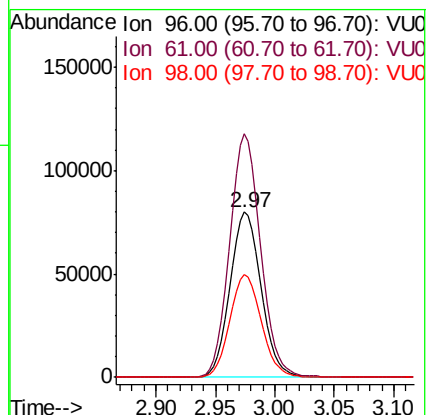
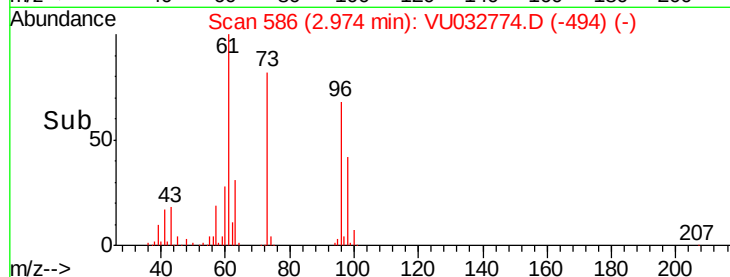


Abundance Ion 96.00 (95.70 to 96.70): VU032773.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032773.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032773.D (-574) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 103.727 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

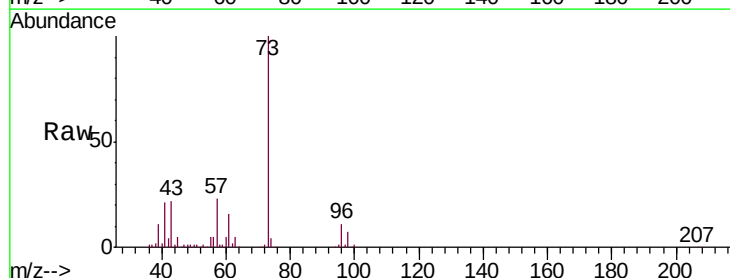
Tgt Ion: 73 Resp: 480474

Ion Ratio Lower Upper

73 100

43 21.9 17.8 26.8

57 22.3 17.8 26.6

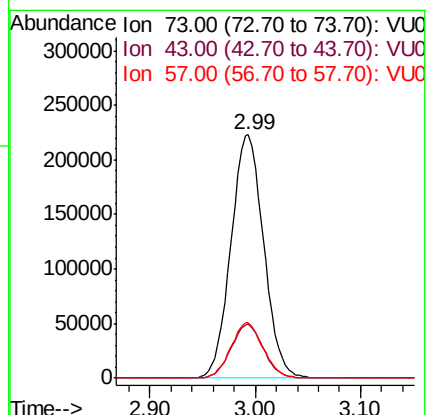
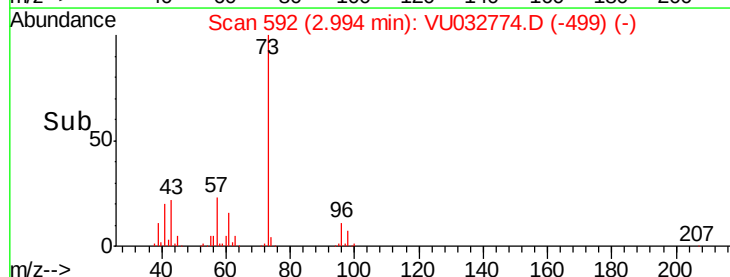


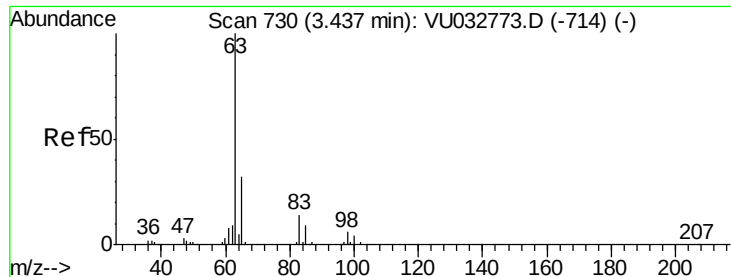
Abundance Ion 73.00 (72.70 to 73.70): VU032773.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU032773.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU032773.D (-576) (-)

Time-->

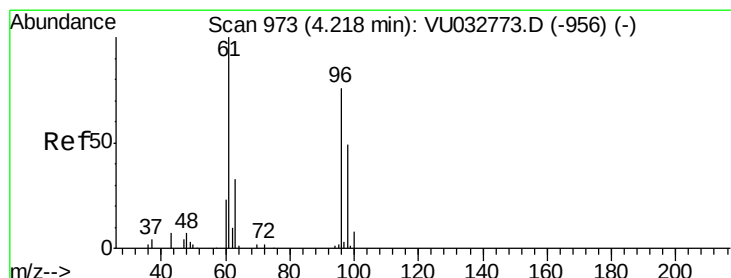
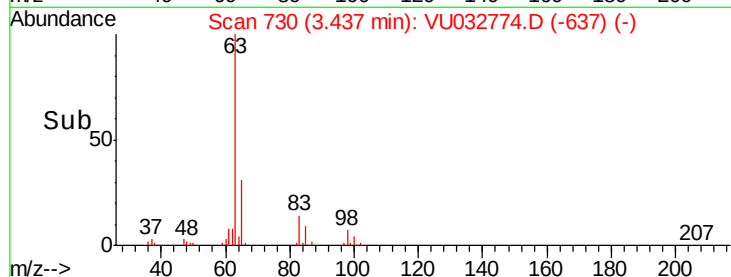
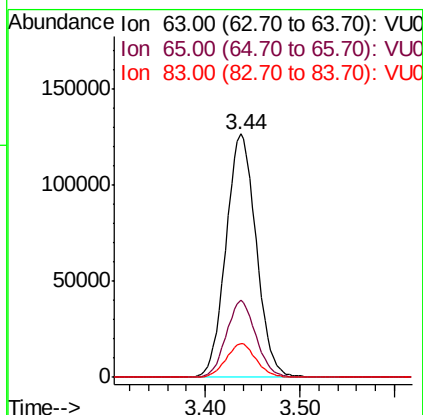
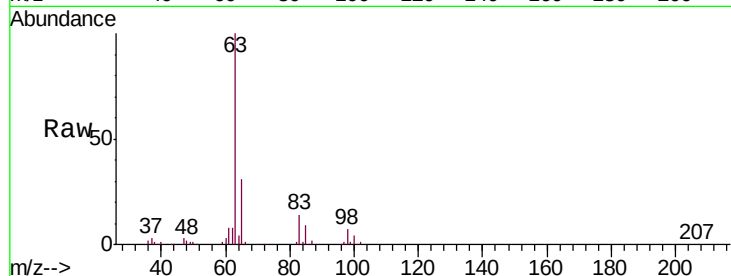




#19  
 1,1-Dichloroethane  
 Concen: 107.668 ug/L  
 RT: 3.44 min Scan# 730  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

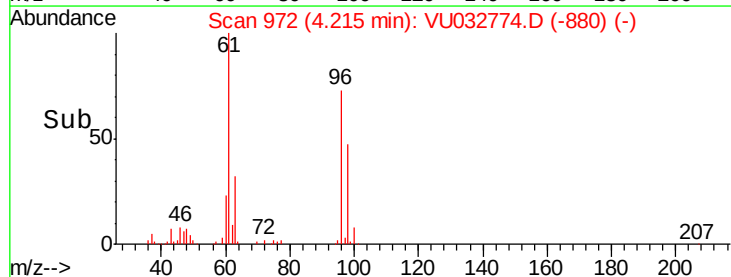
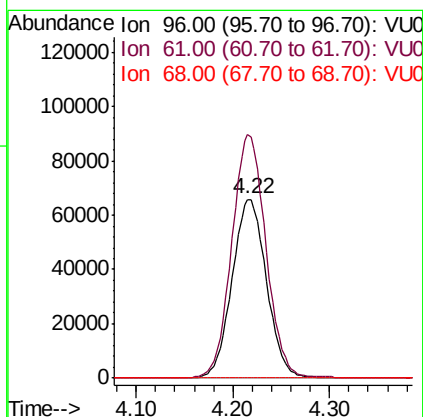
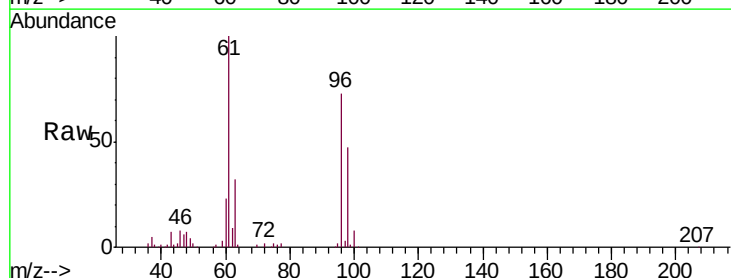
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

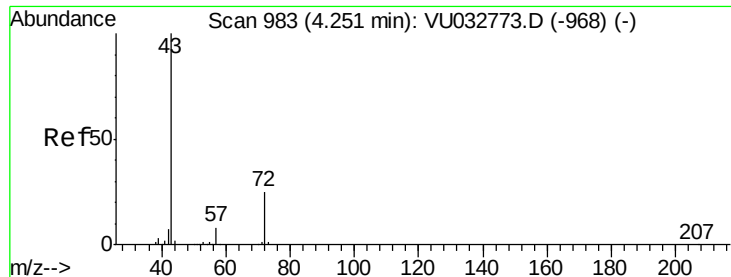
Tgt Ion: 63 Resp: 280865  
 Ion Ratio Lower Upper  
 63 100  
 65 31.5 22.0 41.0  
 83 13.8 9.5 17.7



#20  
 cis-1,2-Dichloroethene  
 Concen: 102.182 ug/L  
 RT: 4.22 min Scan# 972  
 Delta R.T. -0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

Tgt Ion: 96 Resp: 162418  
 Ion Ratio Lower Upper  
 96 100  
 61 136.1 92.4 171.6  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 242.805 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

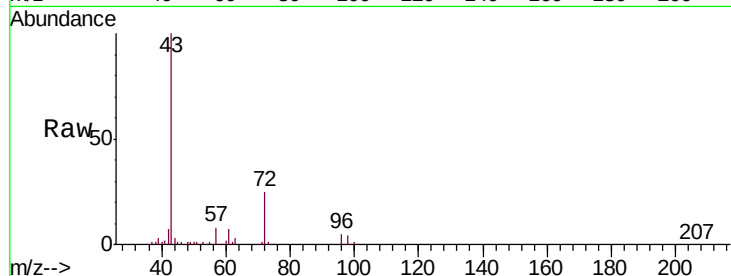
VSTD10034

Tgt Ion: 43 Resp: 362288

Ion Ratio Lower Upper

43 100

72 25.5 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU032773.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU032773.D (-968) (-)

4.25

150000

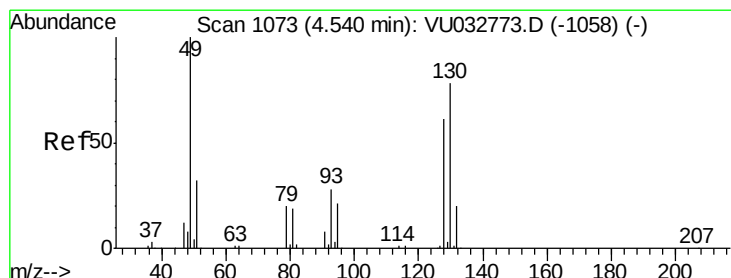
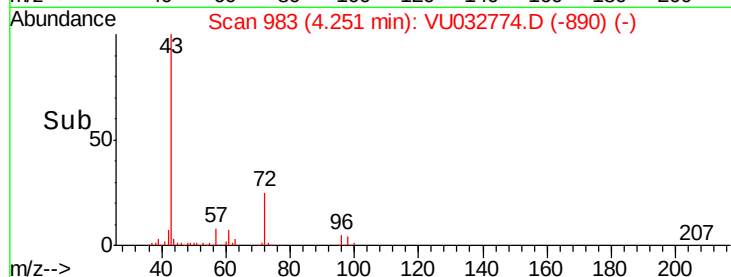
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 101.565 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Tgt Ion: 128 Resp: 84039

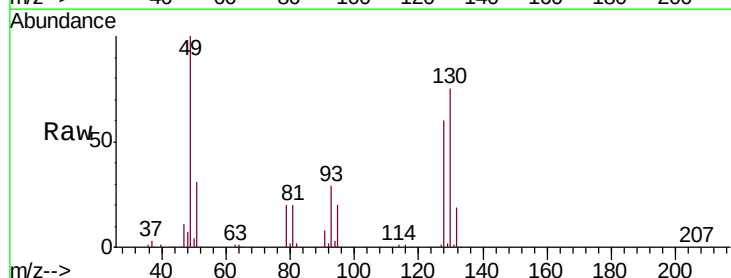
Ion Ratio Lower Upper

128 100

49 167.3 114.7 212.9

130 126.3 89.4 166.0

51 51.5 42.0 63.0



Abundance Ion 128.00 (127.70 to 128.70): VU032773.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU032773.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU032773.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU032773.D (-1058) (-)

80000

60000

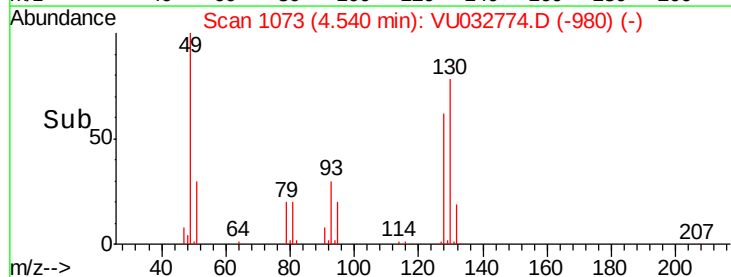
40000

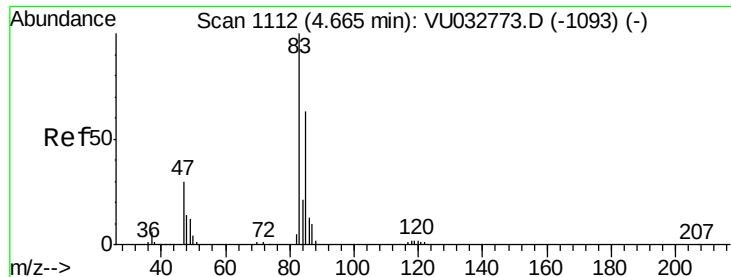
20000

0

4.50 4.54 4.60

Time-->





#25

Chloroform

Concen: 107.279 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

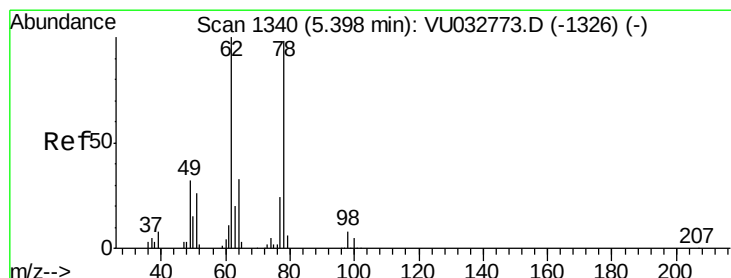
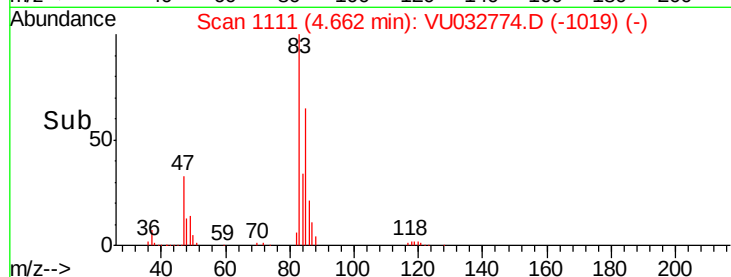
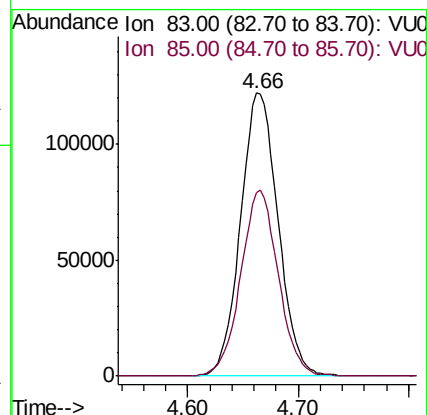
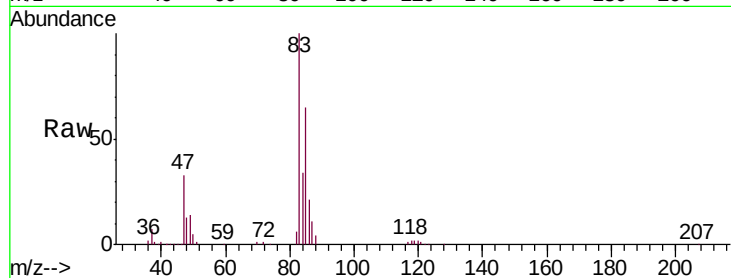
VSTD10034

Tgt Ion: 83 Resp: 288391

Ion Ratio Lower Upper

83 100

85 65.0 44.2 82.2



#27

1,2-Dichloroethane

Concen: 111.548 ug/L

RT: 5.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VU032774.D

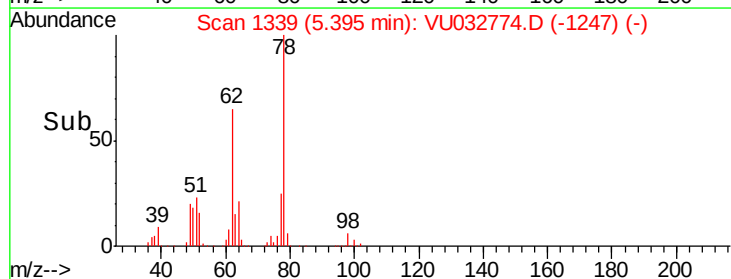
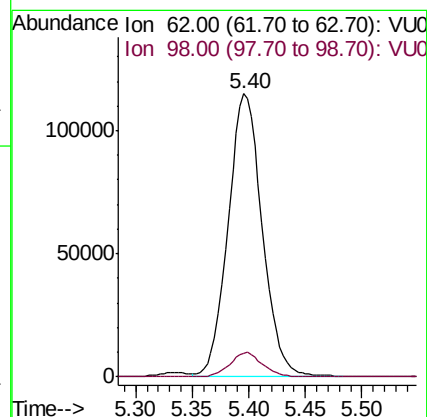
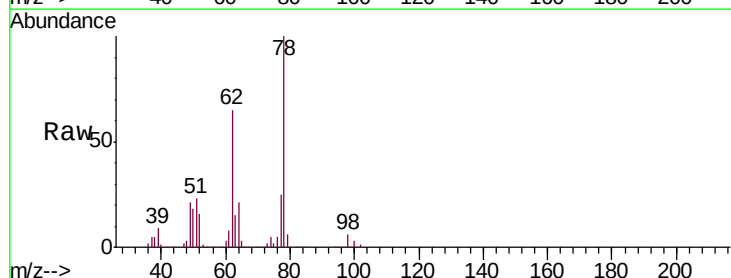
Acq: 17 Jun 2019 11:48

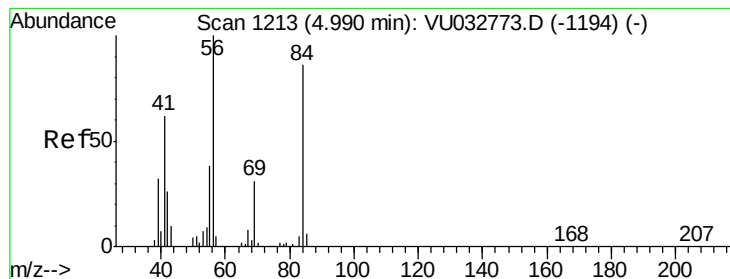
Tgt Ion: 62 Resp: 240072

Ion Ratio Lower Upper

62 100

98 8.5 6.6 10.0





#29

Cyclohexane

Concen: 98.871 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

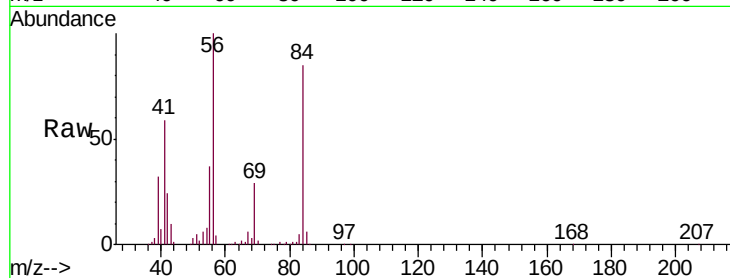
Tgt Ion: 56 Resp: 249426

Ion Ratio Lower Upper

56 100

69 29.5 24.2 36.4

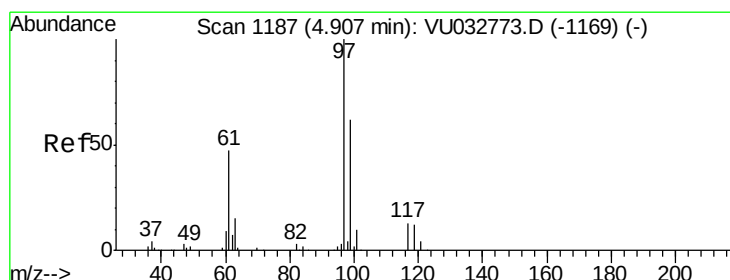
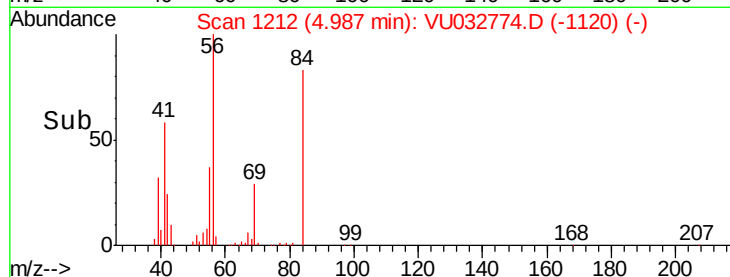
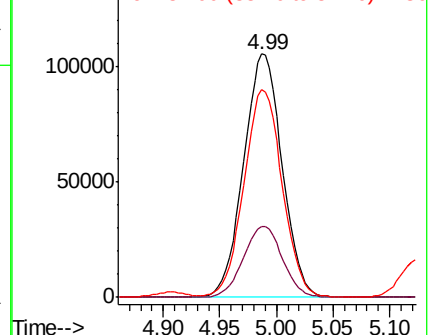
84 85.5 68.0 102.0



Abundance Ion 56.00 (55.70 to 56.70): VU032773.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU032773.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU032773.D (-1194) (-)



#30

1,1,1-Trichloroethane

Concen: 105.009 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

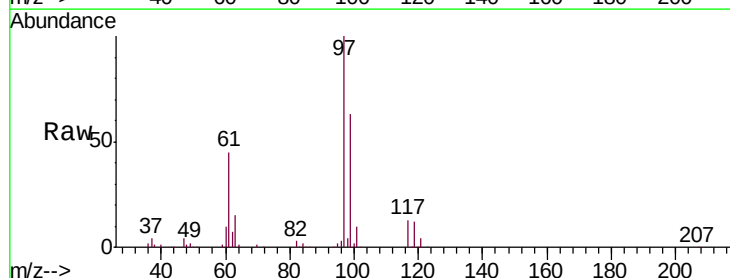
Tgt Ion: 97 Resp: 255414

Ion Ratio Lower Upper

97 100

99 64.0 50.7 76.1

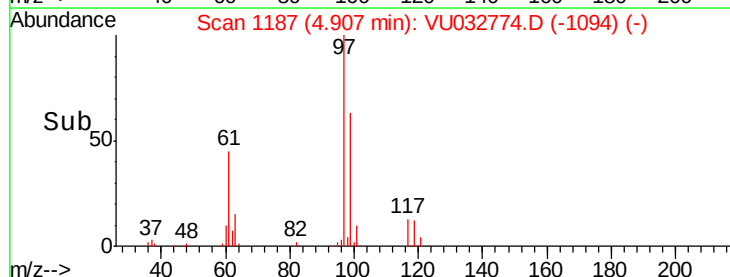
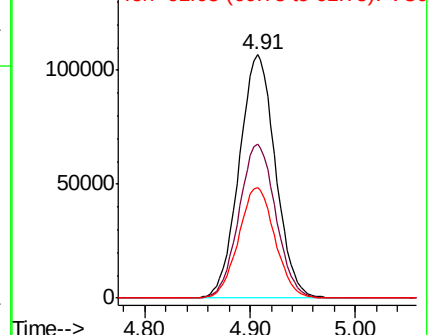
61 45.6 36.7 55.1

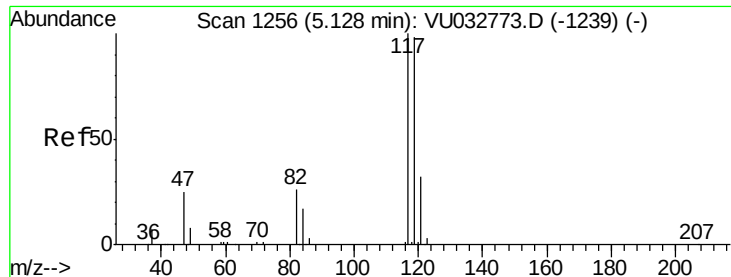


Abundance Ion 97.00 (96.70 to 97.70): VU032773.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU032773.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032773.D (-1169) (-)





#31

Carbon tetrachloride

Concen: 104.881 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

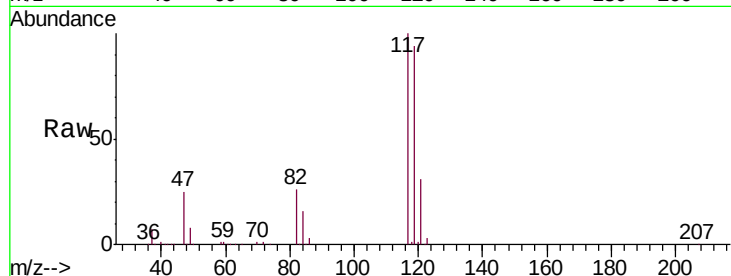
VSTD10034

Tgt Ion:117 Resp: 234351

Ion Ratio Lower Upper

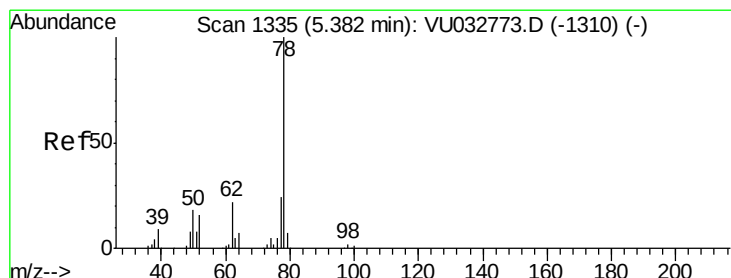
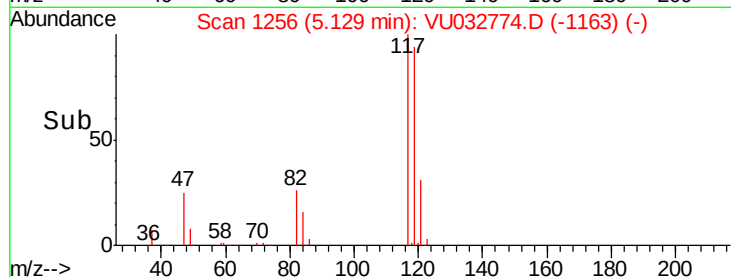
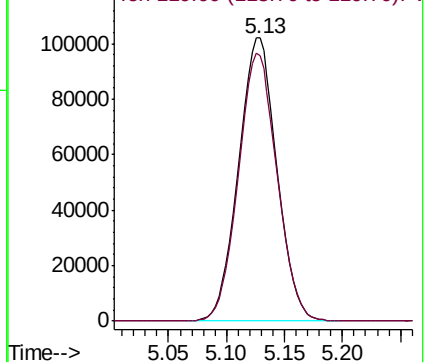
117 100

119 95.3 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 101.119 ug/L

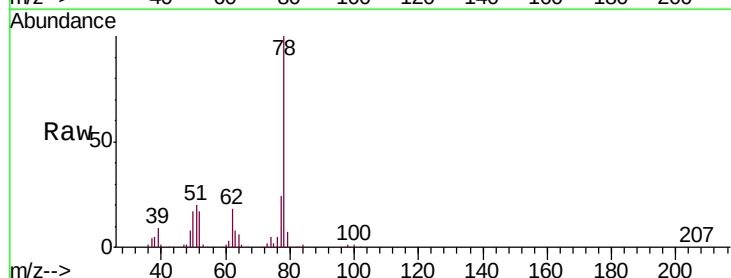
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

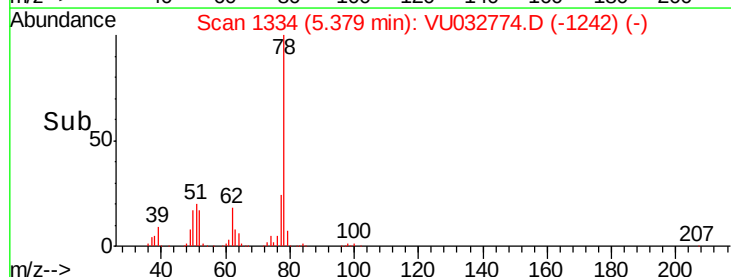
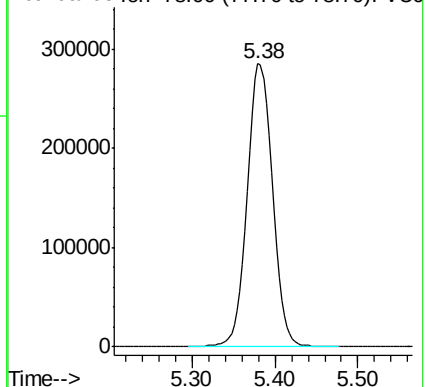
Lab File: VU032774.D

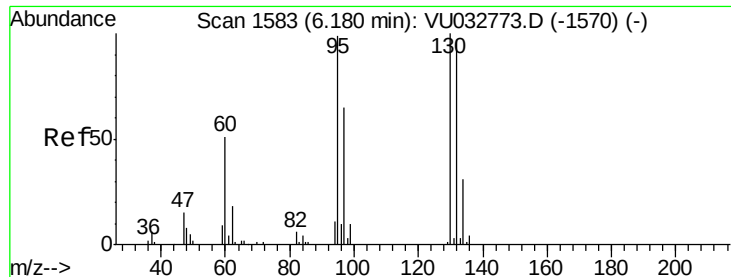
Acq: 17 Jun 2019 11:48

Tgt Ion: 78 Resp: 606910



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 97.191 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

Tgt Ion: 95 Resp: 158350

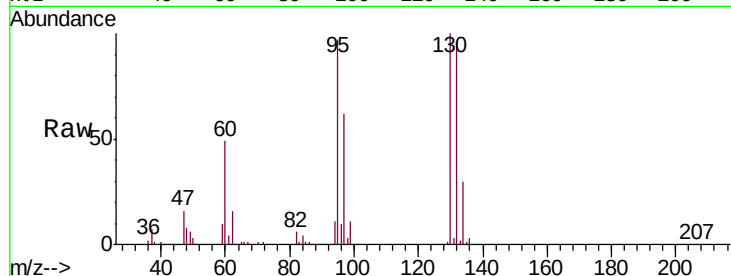
Ion Ratio Lower Upper

95 100

97 64.5 45.9 85.3

132 99.3 68.5 127.3

130 103.3 70.8 131.4

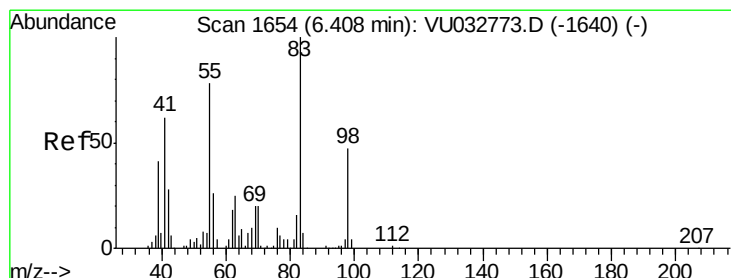
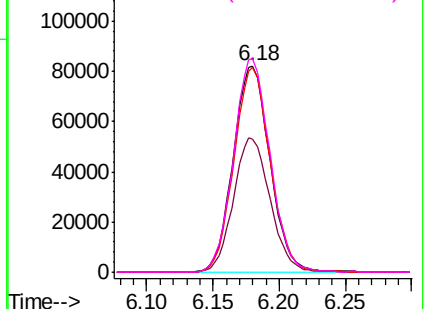
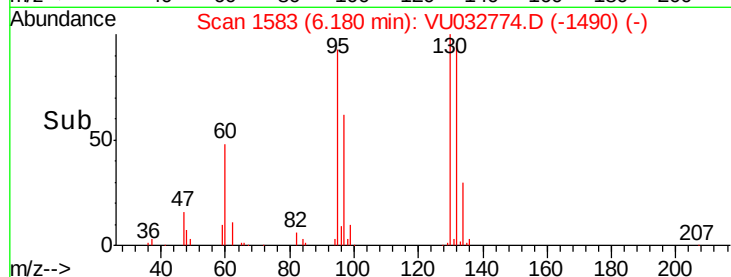


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 98.650 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

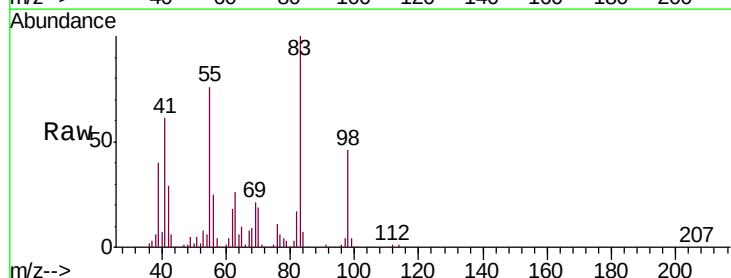
Tgt Ion: 83 Resp: 258716

Ion Ratio Lower Upper

83 100

55 76.6 62.6 94.0

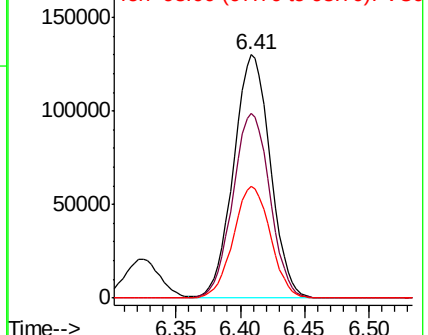
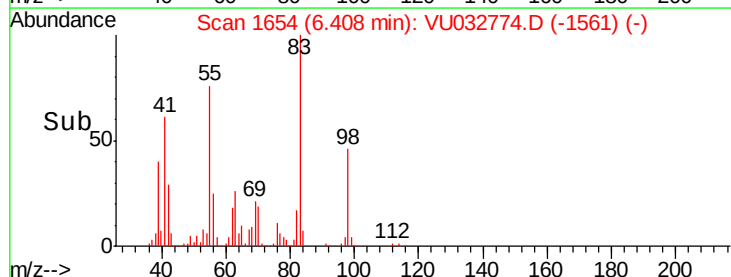
98 46.1 37.4 56.0



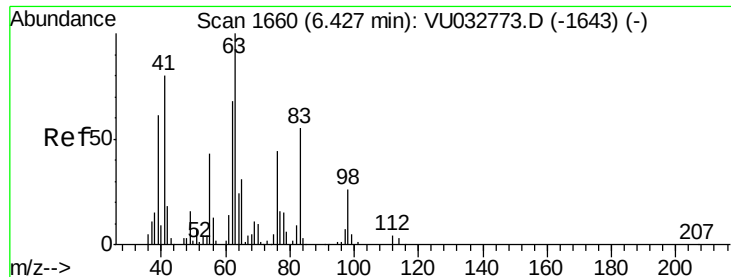
Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



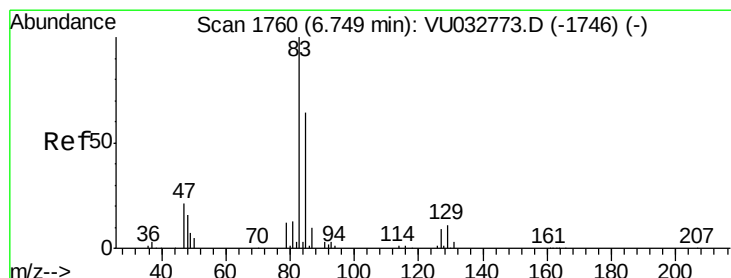
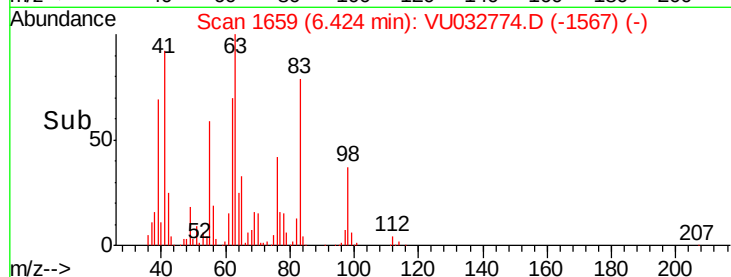
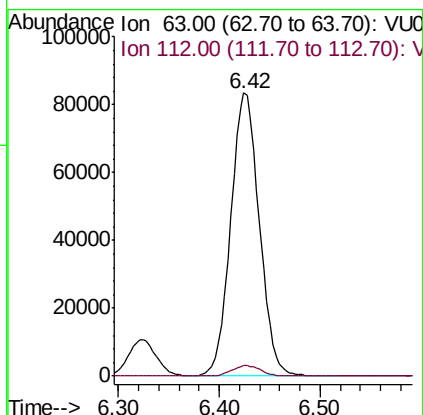
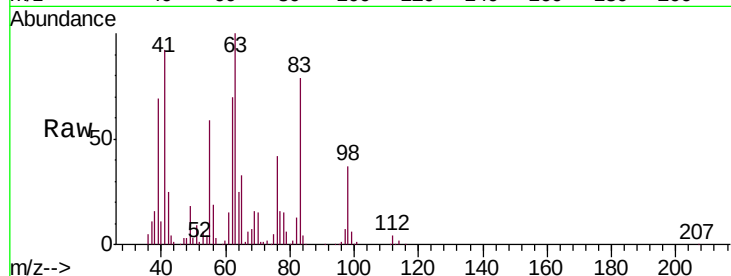




#37  
 1,2-Dichloropropane  
 Concen: 102.665 ug/L  
 RT: 6.42 min Scan# 1659  
 Delta R.T. -0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

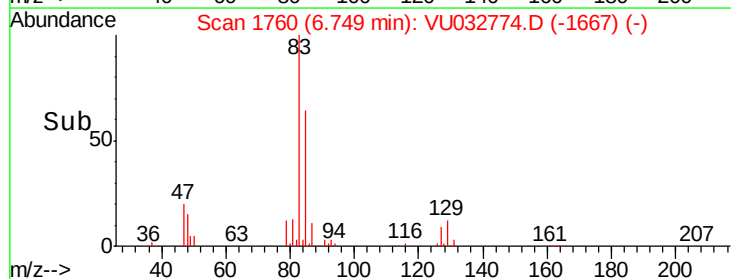
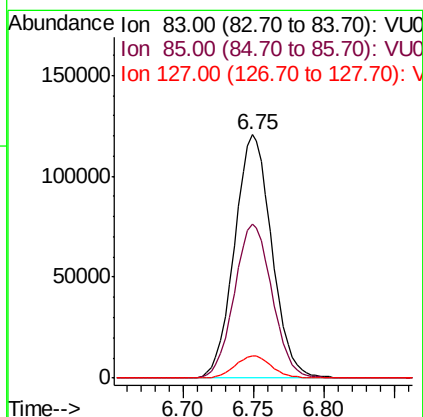
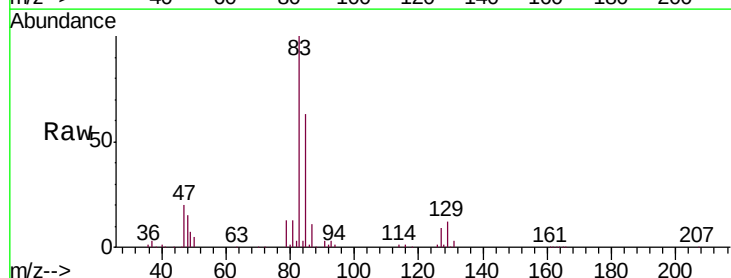
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

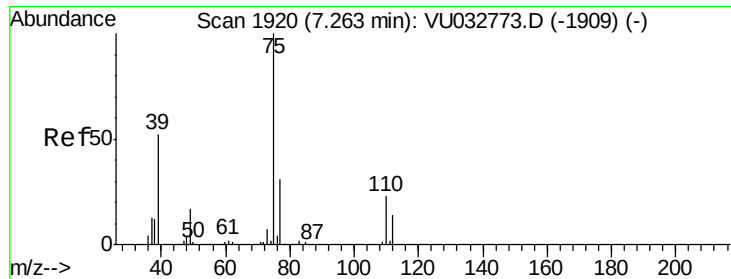
Tgt Ion: 63 Resp: 165138  
 Ion Ratio Lower Upper  
 63 100  
 112 3.7 3.0 4.6



#38  
 Bromodichloromethane  
 Concen: 107.404 ug/L  
 RT: 6.75 min Scan# 1760  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

Tgt Ion: 83 Resp: 223368  
 Ion Ratio Lower Upper  
 83 100  
 85 63.4 45.0 83.6  
 127 9.2 7.0 10.6

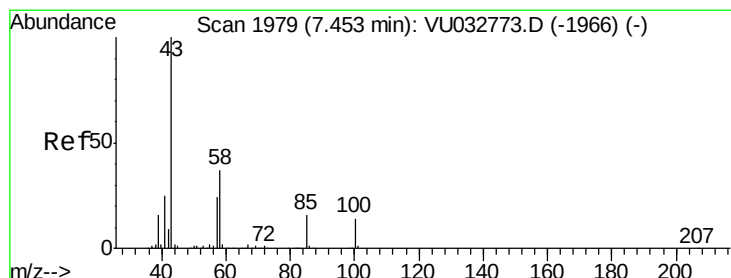
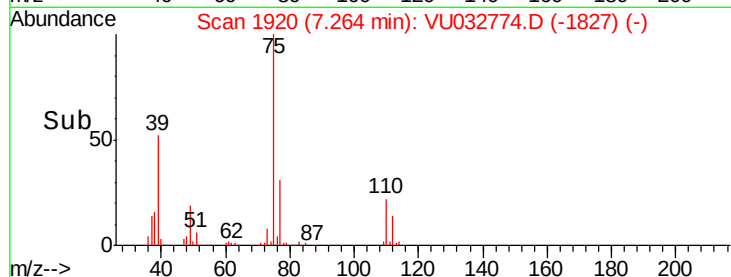
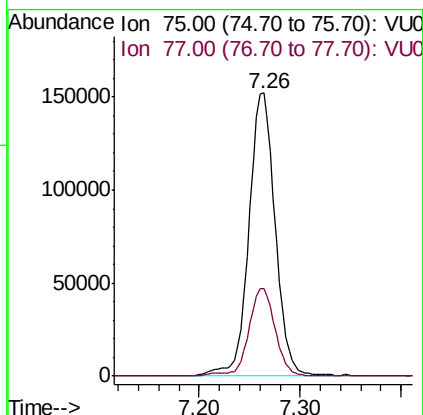
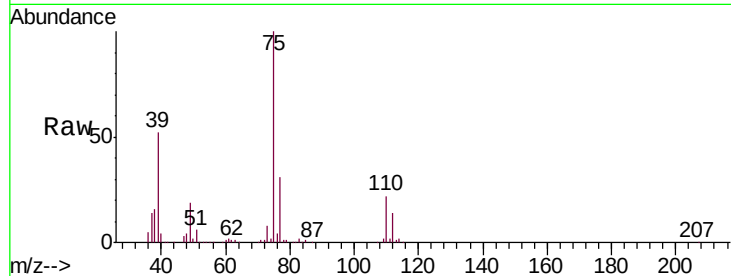




#39  
 cis-1,3-Dichloropropene  
 Concen: 108.551 ug/L  
 RT: 7.26 min Scan# 1920  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

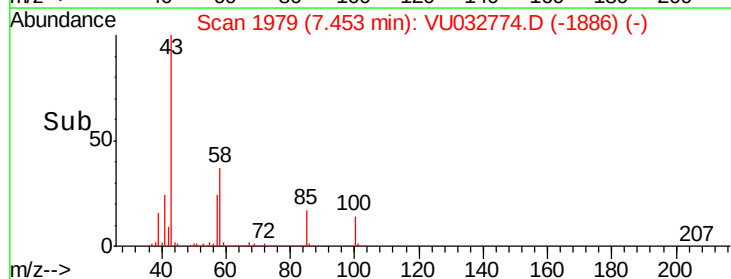
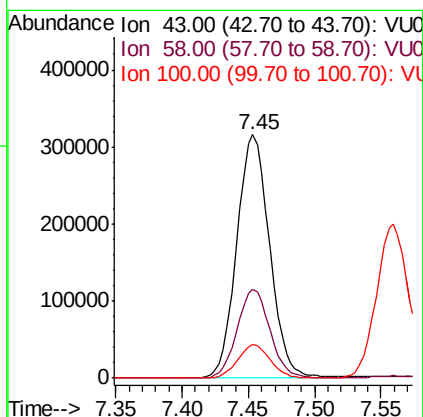
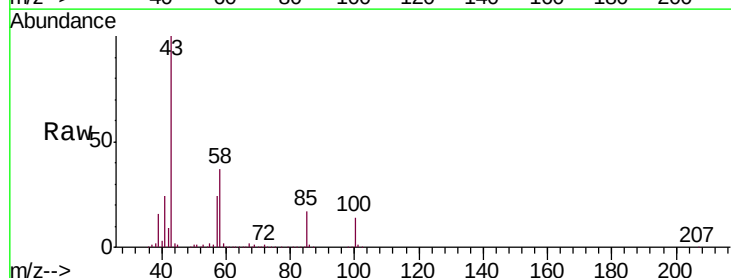
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

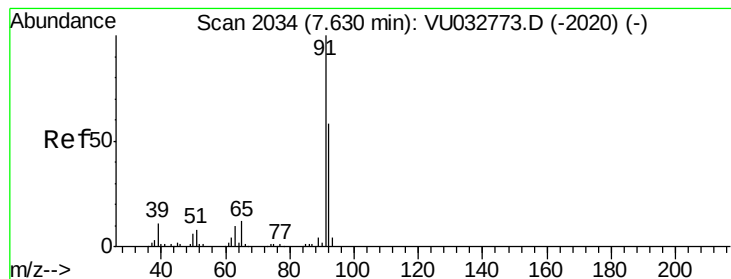
Tgt Ion: 75 Resp: 273773  
 Ion Ratio Lower Upper  
 75 100  
 77 30.9 21.9 40.7



#40  
 4-Methyl-2-pentanone  
 Concen: 213.737 ug/L  
 RT: 7.45 min Scan# 1979  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

Tgt Ion: 43 Resp: 545010  
 Ion Ratio Lower Upper  
 43 100  
 58 36.5 29.4 44.2  
 100 13.7 11.2 16.8





#42

Toluene

Concen: 101.329 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

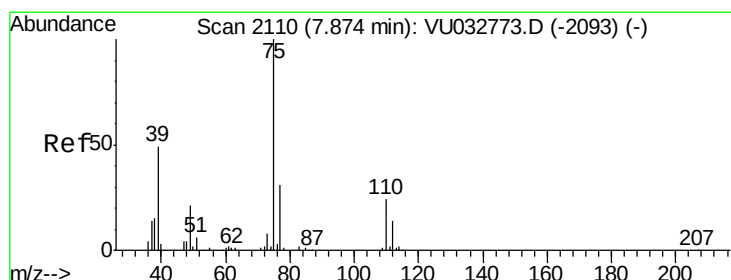
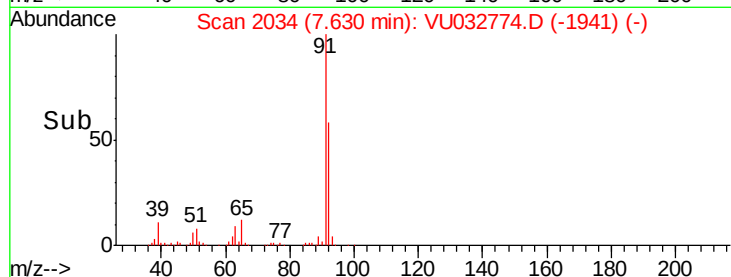
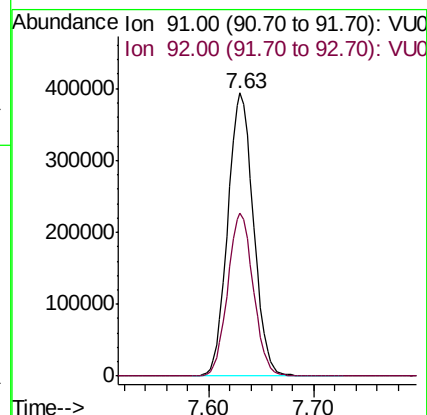
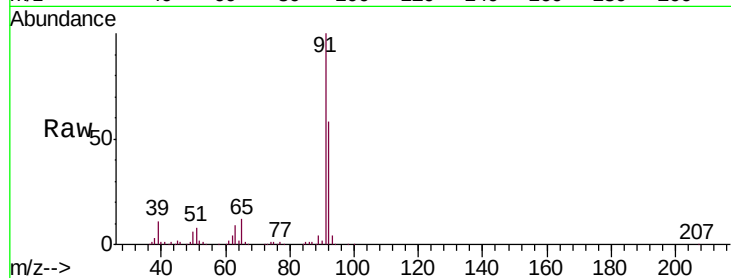
VSTD10034

Tgt Ion: 91 Resp: 665245

Ion Ratio Lower Upper

91 100

92 57.8 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 110.924 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032774.D

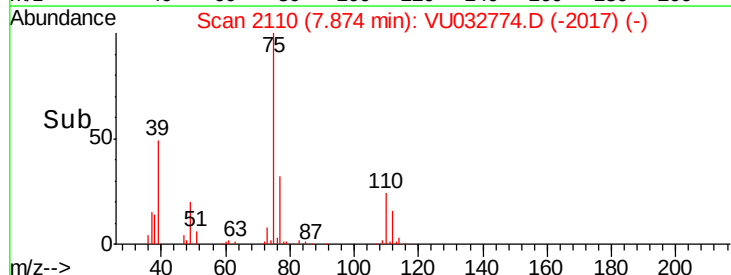
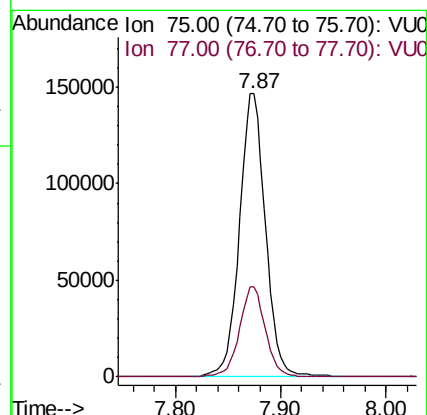
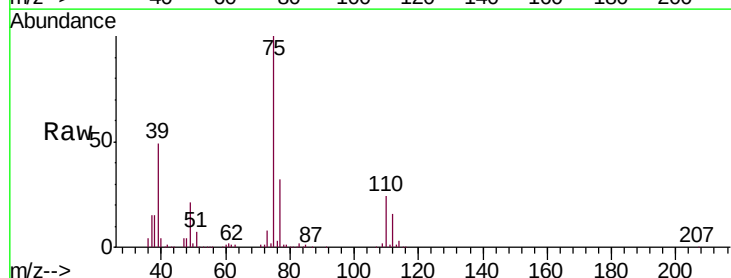
Acq: 17 Jun 2019 11:48

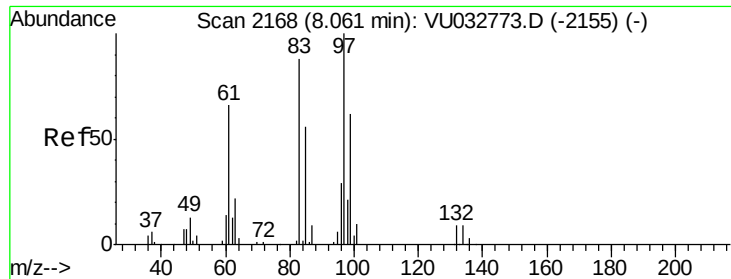
Tgt Ion: 75 Resp: 250749

Ion Ratio Lower Upper

75 100

77 31.8 21.8 40.4

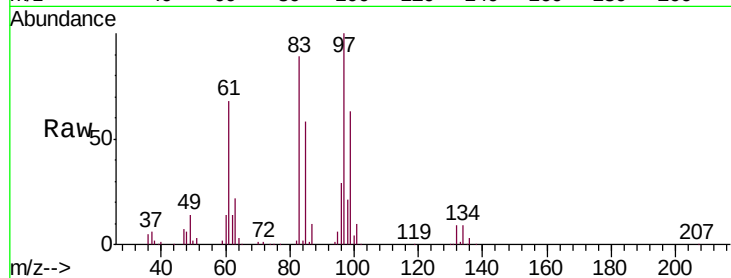




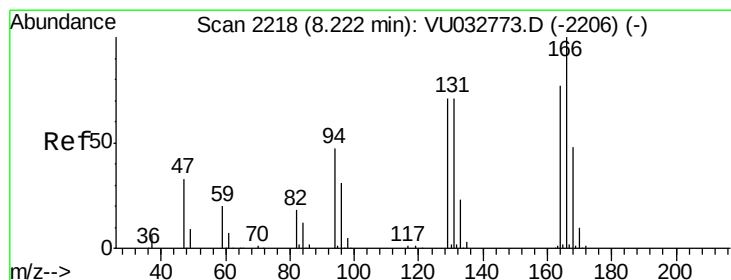
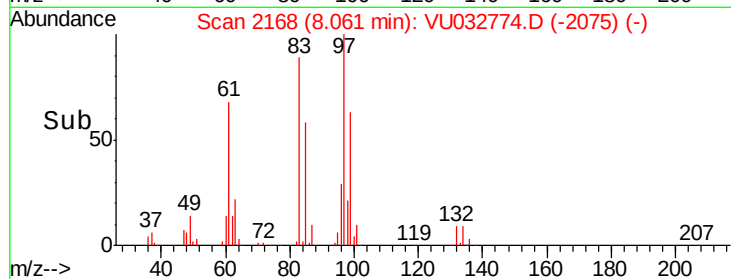
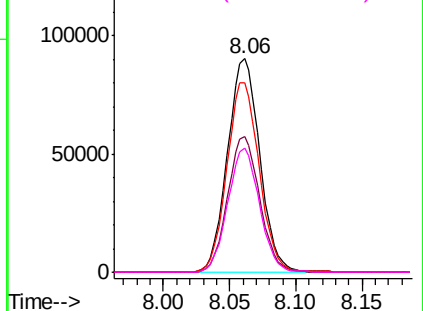
#45  
 1,1,2-Trichloroethane  
 Concen: 101.588 ug/L  
 RT: 8.06 min Scan# 2168  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTD10034

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 153042 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.3  | 43.1  | 80.1   |
| 83       | 88.7  | 61.4  | 114.0  |
| 85       | 57.9  | 39.2  | 72.8   |

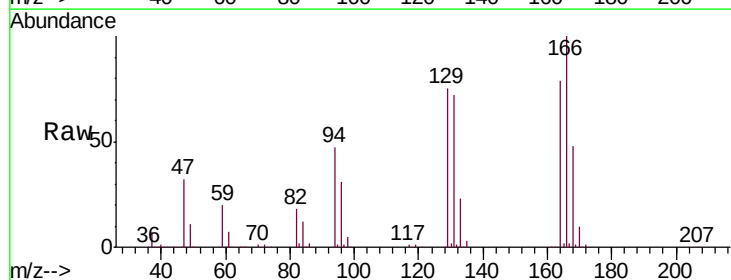


Abundance Ion 97.00 (96.70 to 97.70): VU0  
 Ion 99.00 (98.70 to 99.70): VU0  
 Ion 83.00 (82.70 to 83.70): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

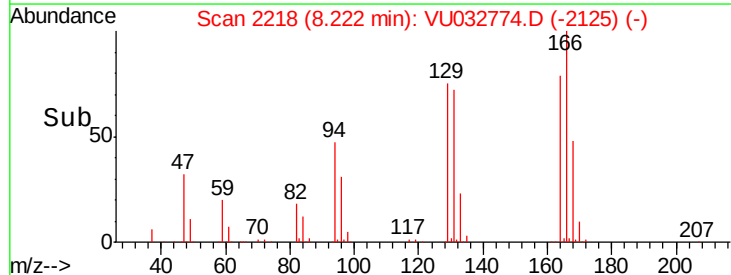
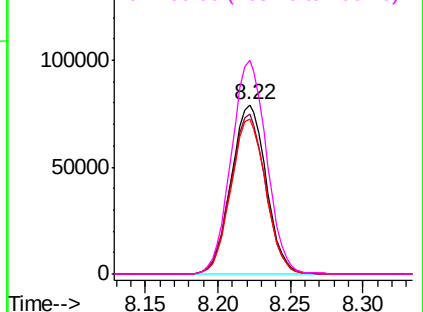


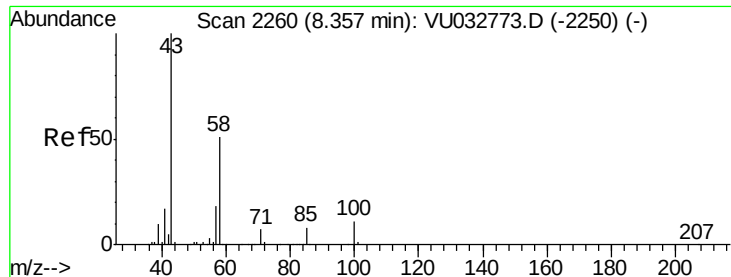
#46  
 Tetrachloroethene  
 Concen: 99.014 ug/L  
 RT: 8.22 min Scan# 2218  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 132915 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 94.5  | 64.8  | 120.3  |
| 131      | 91.5  | 64.5  | 119.7  |
| 166      | 126.4 | 91.3  | 169.6  |



Abundance Ion 164.00 (163.70 to 164.70): V  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 166.00 (165.70 to 166.70): V

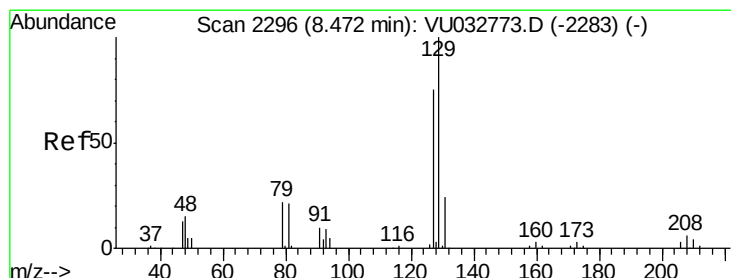
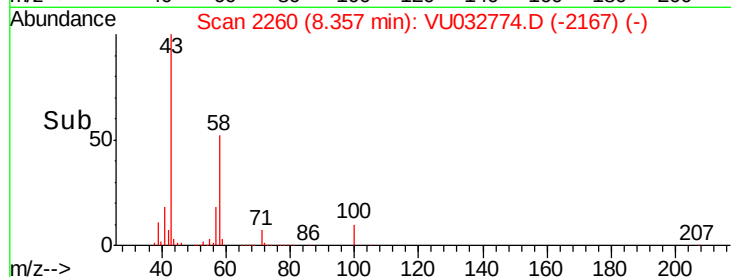
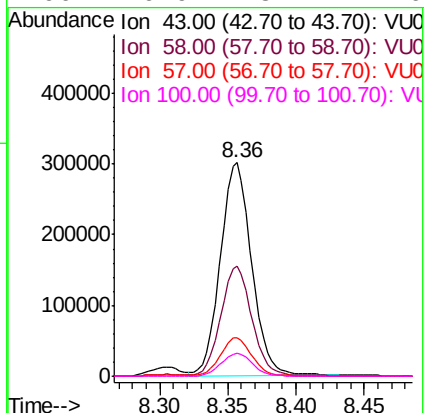
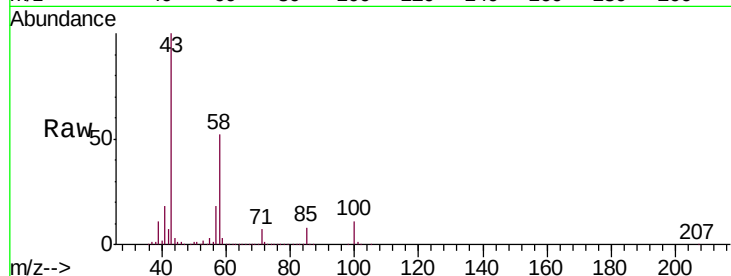




#48  
2-Hexanone  
Concen: 225.300 ug/L  
RT: 8.36 min Scan# 2260  
Delta R.T. 0.00 min  
Lab File: VU032774.D  
Acq: 17 Jun 2019 11:48

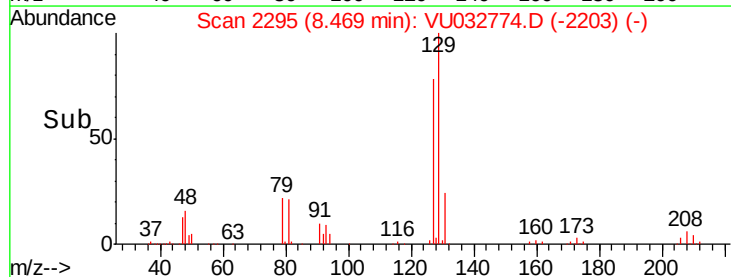
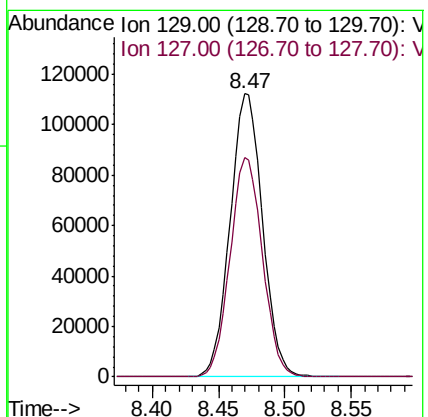
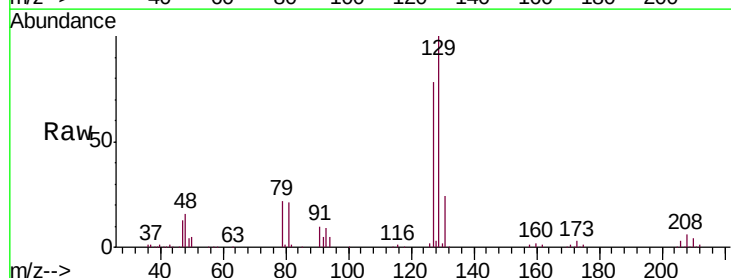
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

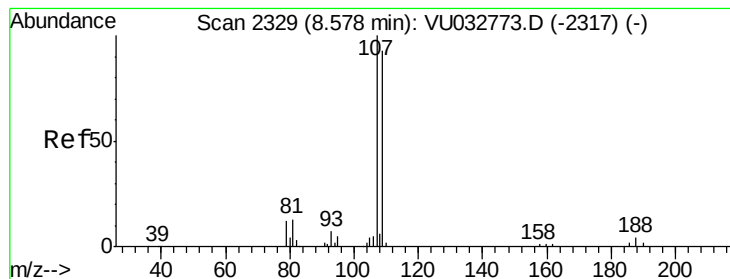
Tgt Ion: 43 Resp: 479879  
Ion Ratio Lower Upper  
43 100  
58 51.1 40.2 60.2  
57 18.2 14.2 21.4  
100 10.9 8.4 12.6



#49  
Dibromochloromethane  
Concen: 108.453 ug/L  
RT: 8.47 min Scan# 2295  
Delta R.T. -0.00 min  
Lab File: VU032774.D  
Acq: 17 Jun 2019 11:48

Tgt Ion: 129 Resp: 191317  
Ion Ratio Lower Upper  
129 100  
127 77.6 52.3 97.1





#50

1,2-Dibromoethane

Concen: 102.920 ug/L

RT: 8.58 min Scan# 2329

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

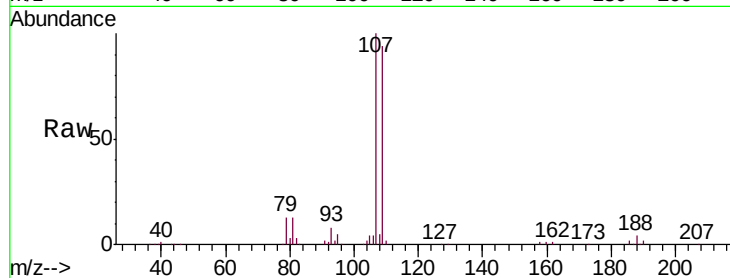
Tgt Ion:107 Resp: 174428

Ion Ratio Lower Upper

107 100

109 93.6 65.4 121.4

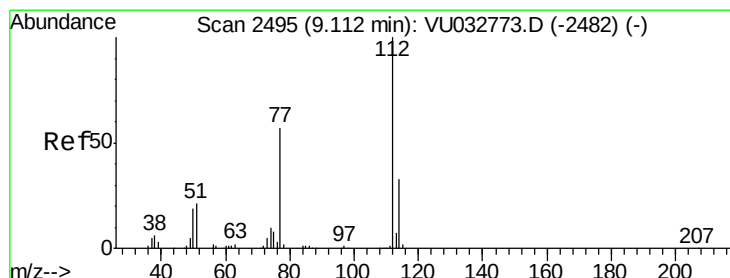
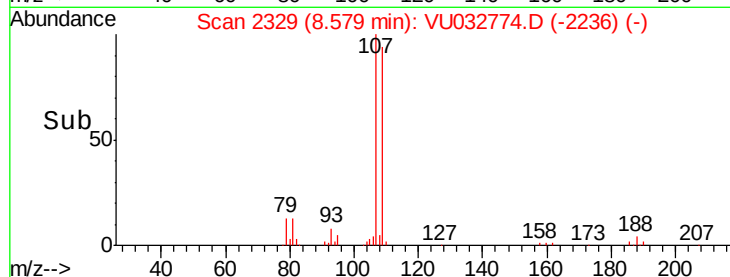
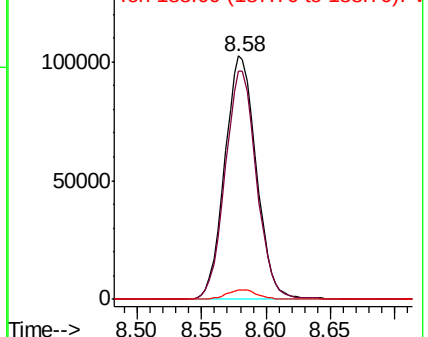
188 3.8 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 100.532 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

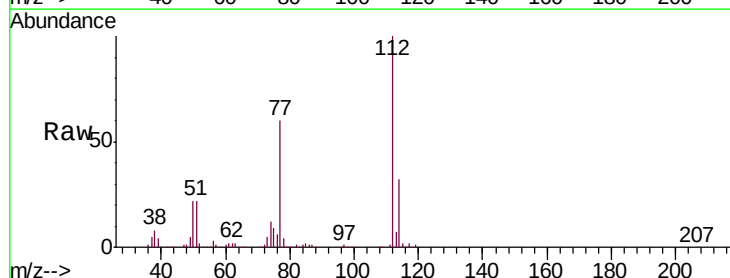
Tgt Ion:112 Resp: 425521

Ion Ratio Lower Upper

112 100

114 32.1 22.8 42.4

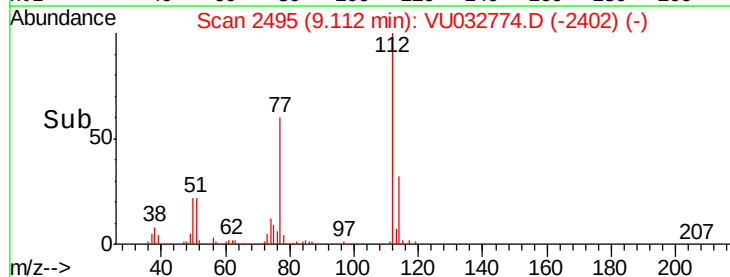
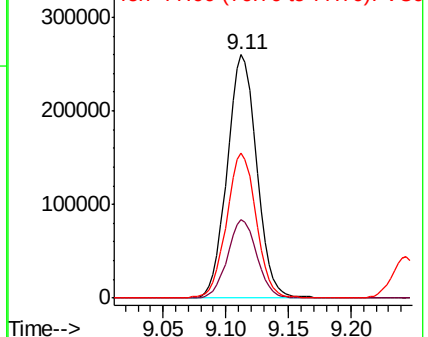
77 59.6 46.3 69.5

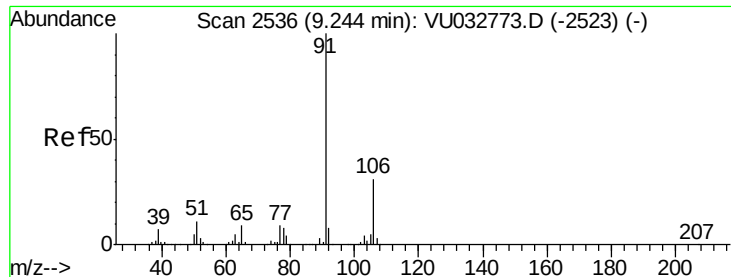


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 102.273 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampled :

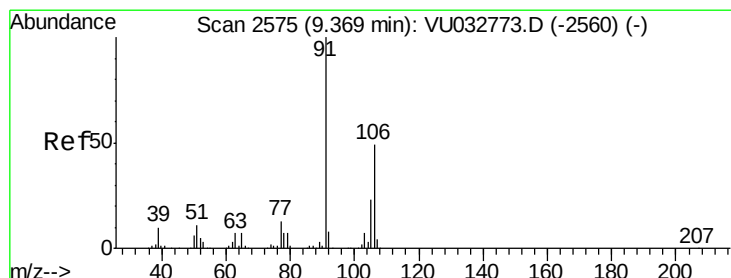
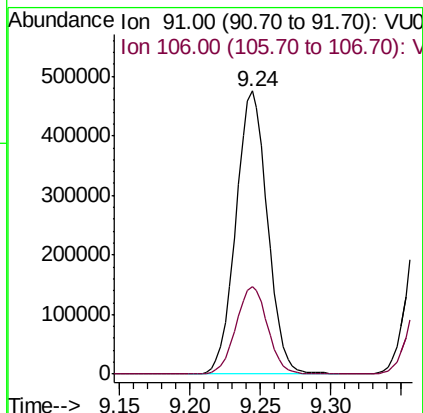
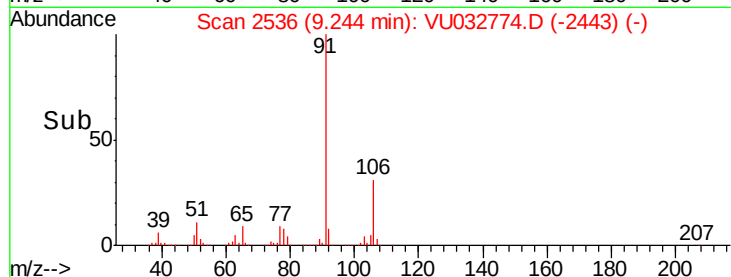
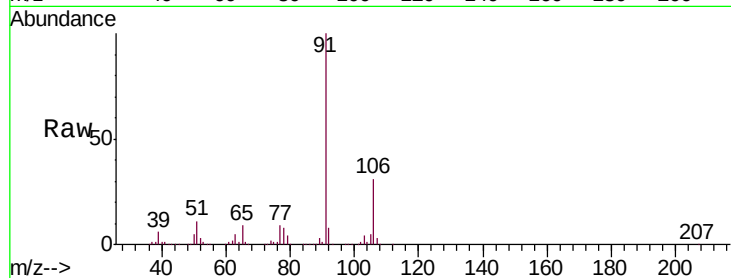
VSTD10034

Tgt Ion: 91 Resp: 746648

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#53

m,p-Xylene

Concen: 102.070 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032774.D

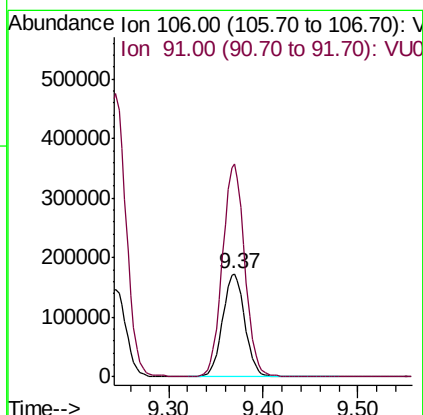
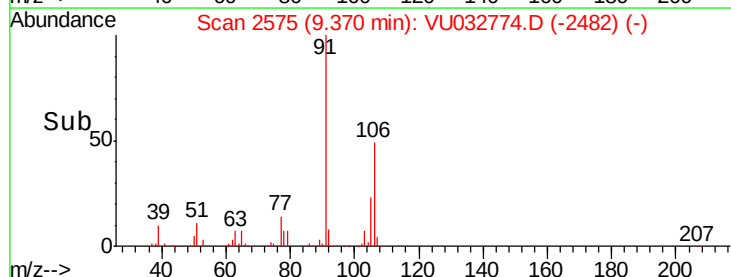
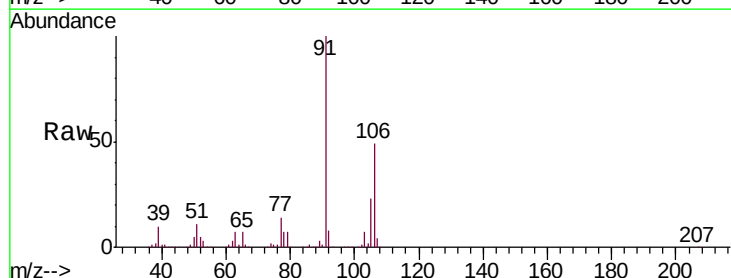
Acq: 17 Jun 2019 11:48

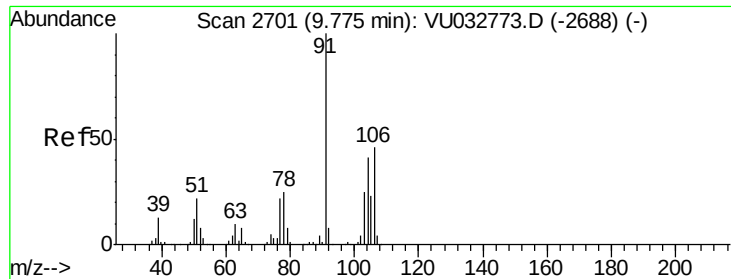
Tgt Ion: 106 Resp: 282889

Ion Ratio Lower Upper

106 100

91 206.1 142.9 265.5





#54

o-xylene

Concen: 101.876 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

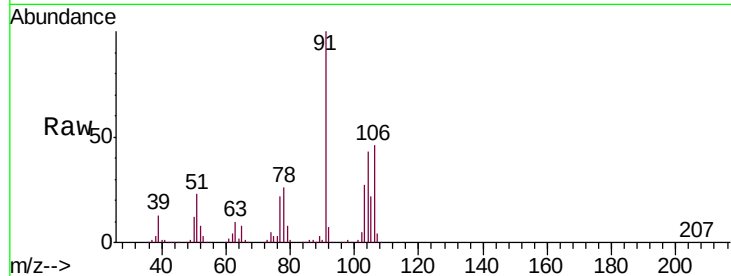
VSTD10034

Tgt Ion:106 Resp: 279759

Ion Ratio Lower Upper

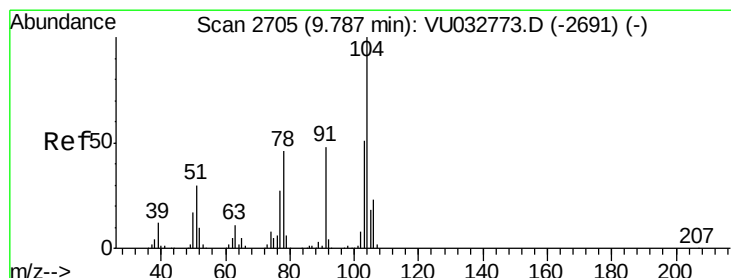
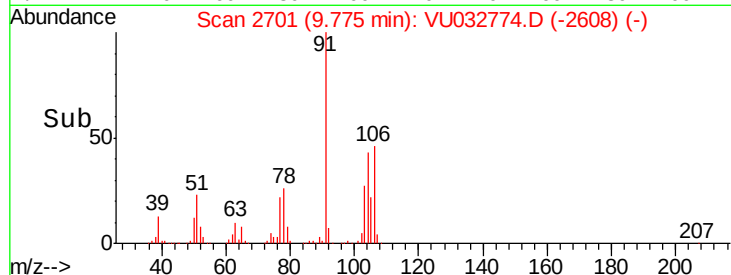
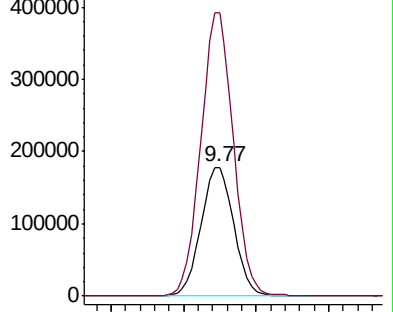
106 100

91 219.7 152.9 284.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 106.344 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032774.D

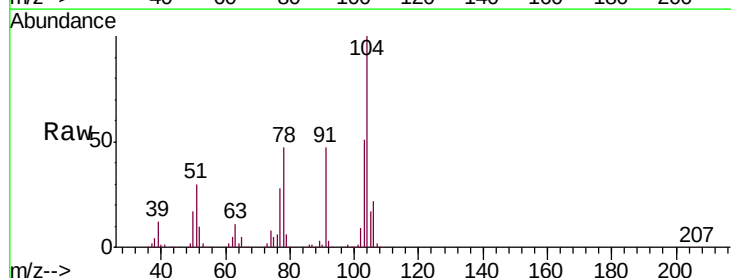
Acq: 17 Jun 2019 11:48

Tgt Ion:104 Resp: 490205

Ion Ratio Lower Upper

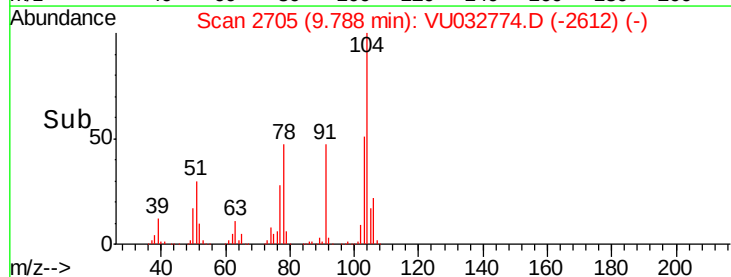
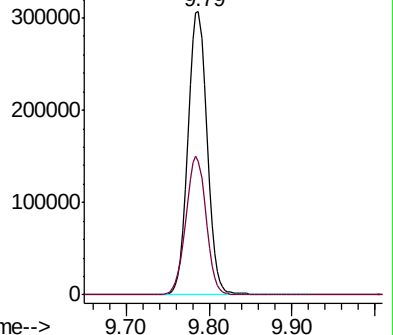
104 100

78 47.0 32.1 59.5

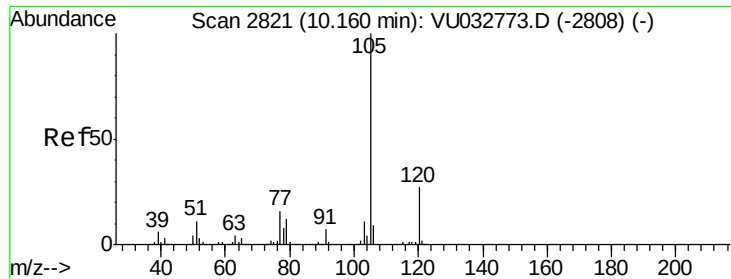


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0







#56

Isopropylbenzene

Concen: 104.159 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

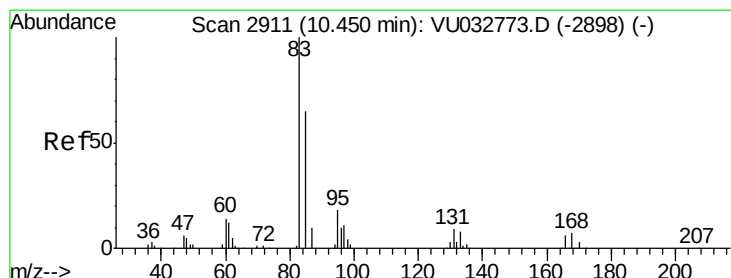
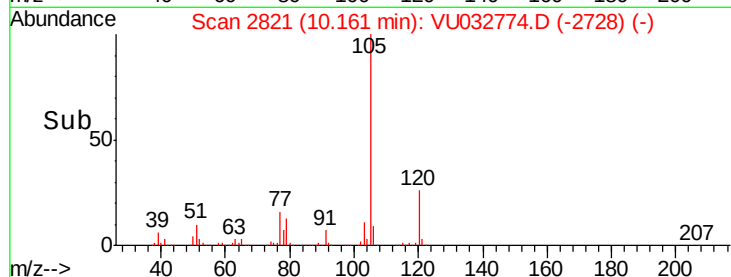
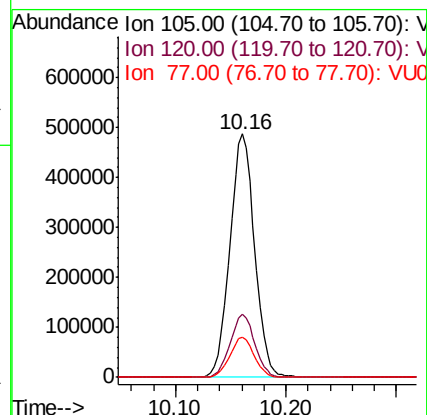
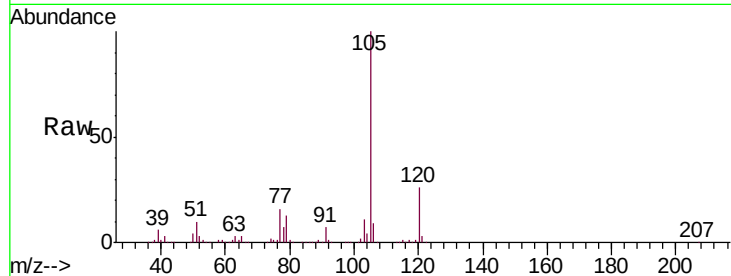
Tgt Ion: 105 Resp: 754874

Ion Ratio Lower Upper

105 100

120 25.9 21.4 32.0

77 16.4 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 109.063 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

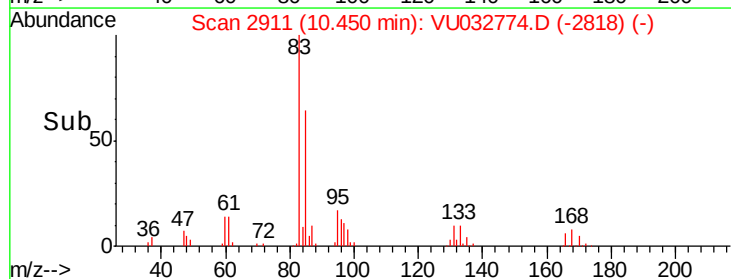
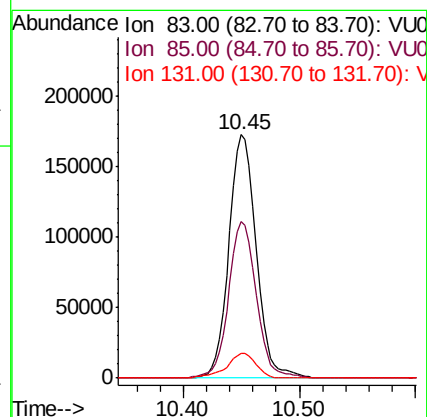
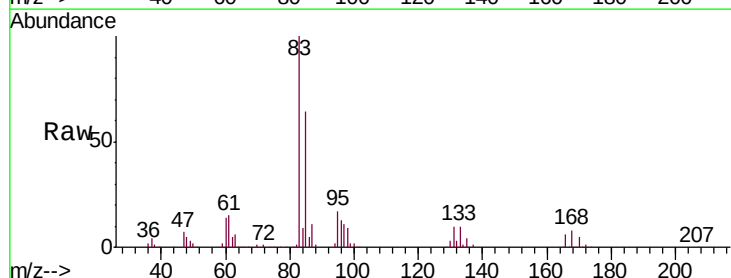
Tgt Ion: 83 Resp: 282542

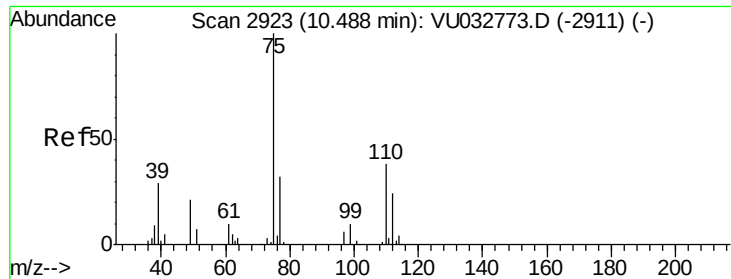
Ion Ratio Lower Upper

83 100

85 64.5 45.8 85.2

131 10.0 7.8 11.8

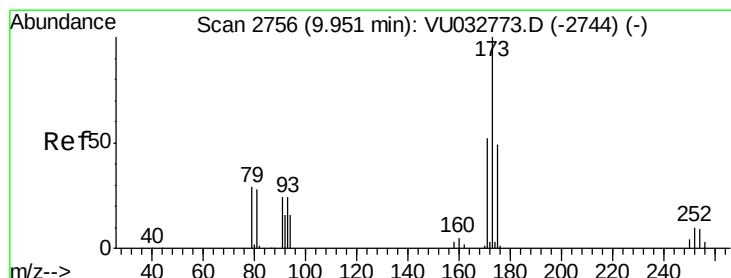
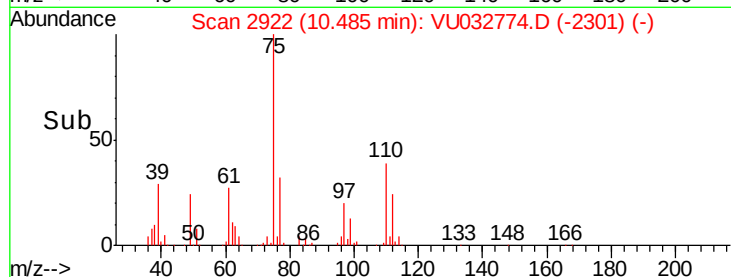
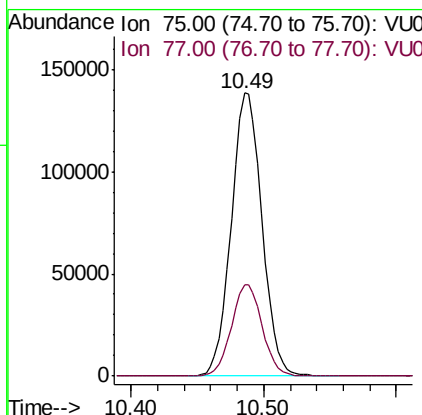
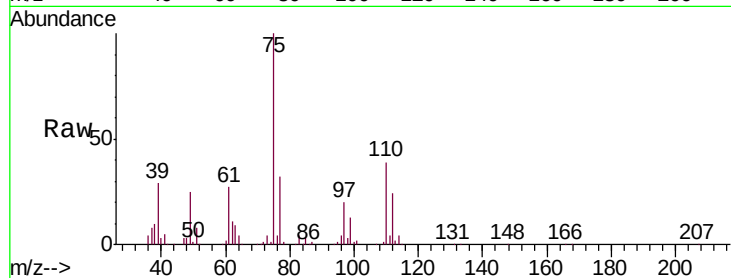




#59  
 1,2,3-Trichloropropane  
 Concen: 107.043 ug/L  
 RT: 10.49 min Scan# 2922  
 Delta R.T. -0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

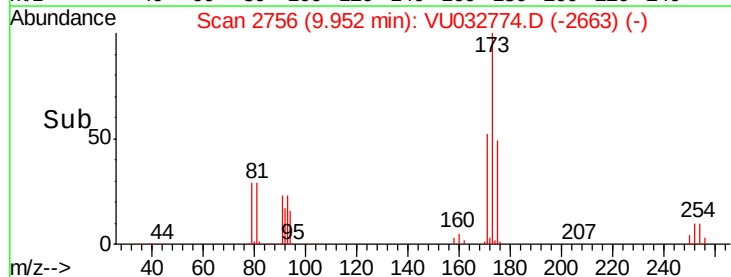
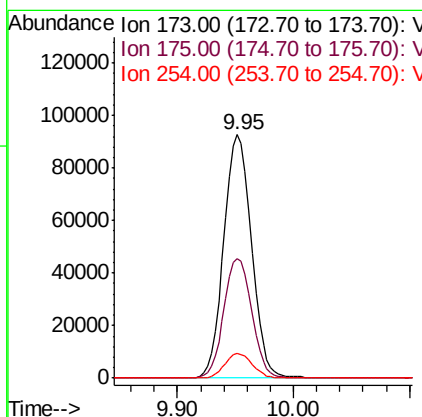
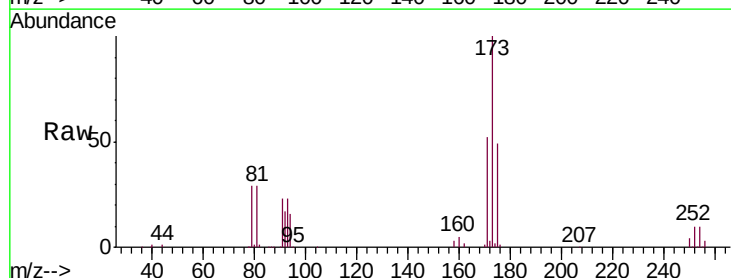
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

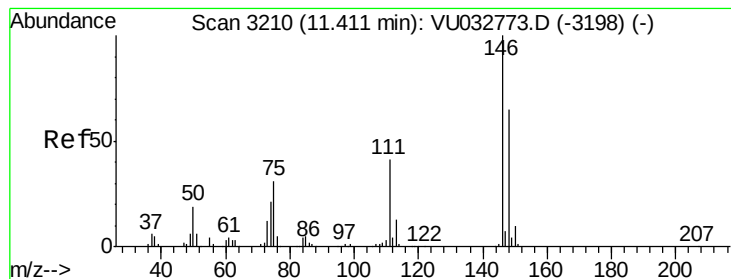
Tgt Ion: 75 Resp: 222687  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 25.5 38.3



#61  
 Bromoform  
 Concen: 104.917 ug/L  
 RT: 9.95 min Scan# 2756  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

Tgt Ion: 173 Resp: 153062  
 Ion Ratio Lower Upper  
 173 100  
 175 49.7 39.0 58.4  
 254 10.0 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 97.979 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

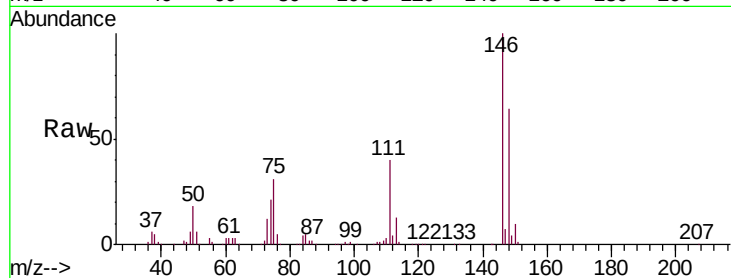
Tgt Ion:146 Resp: 357047

Ion Ratio Lower Upper

146 100

111 40.0 28.4 52.8

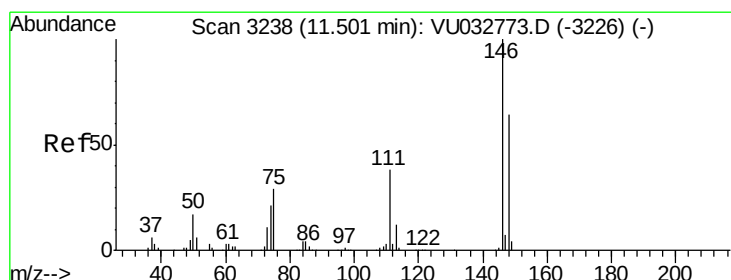
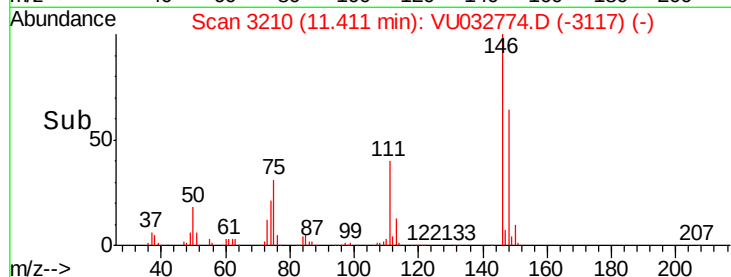
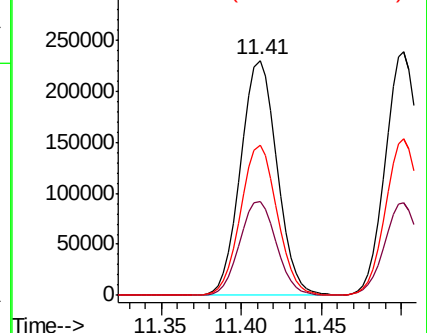
148 64.0 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 98.175 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

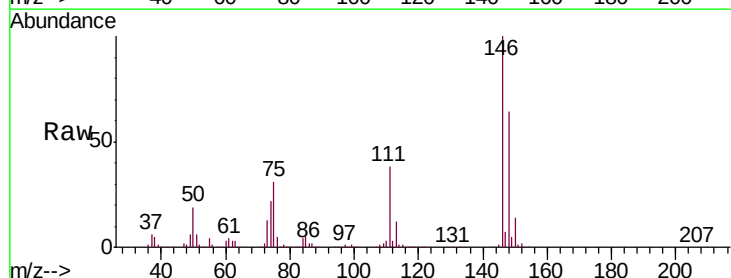
Tgt Ion:146 Resp: 368414

Ion Ratio Lower Upper

146 100

111 38.2 26.9 50.1

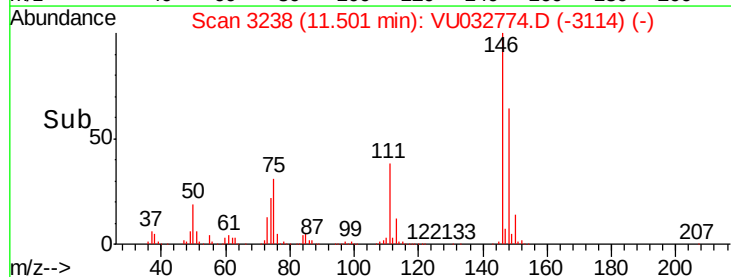
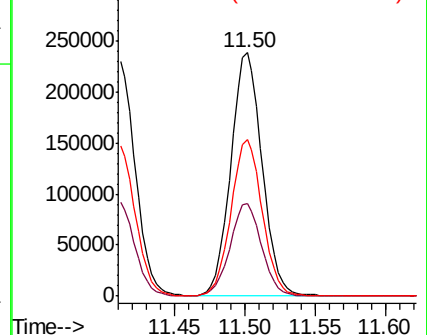
148 64.3 44.7 83.1

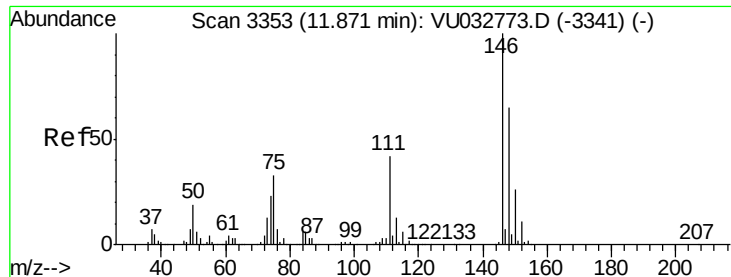


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 99.217 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

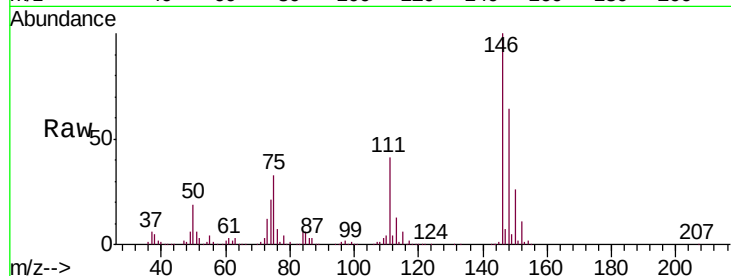
Tgt Ion: 146 Resp: 366147

Ion Ratio Lower Upper

146 100

111 41.4 34.1 51.1

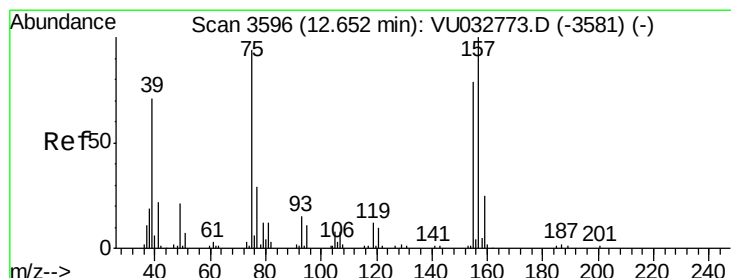
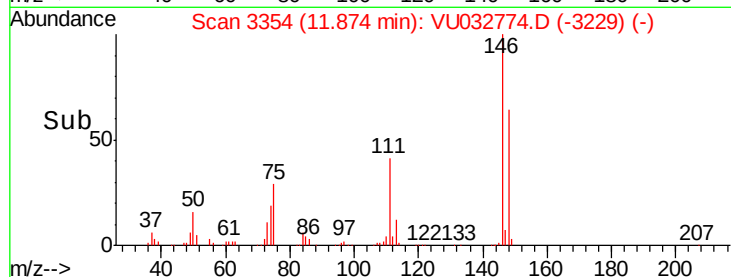
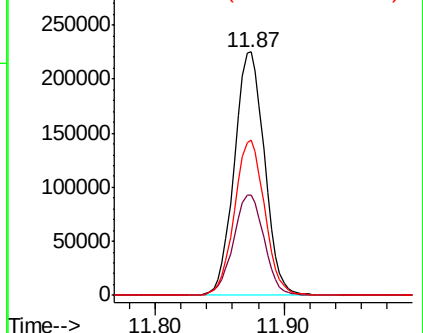
148 63.9 52.0 78.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 116.928 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. -0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

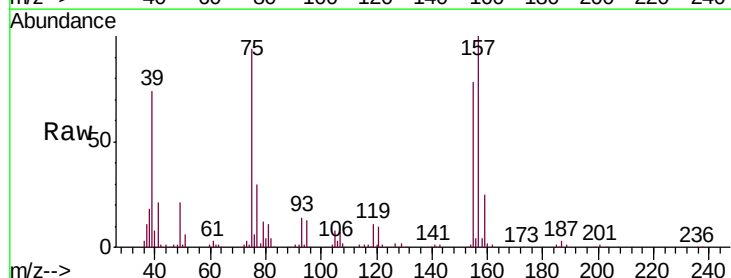
Tgt Ion: 75 Resp: 73752

Ion Ratio Lower Upper

75 100

155 83.2 67.4 101.2

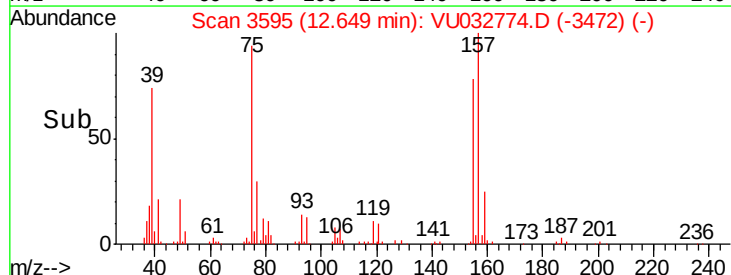
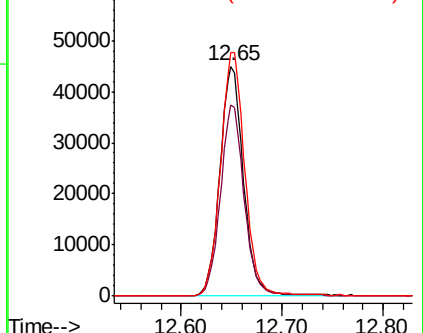
157 106.0 85.5 128.3

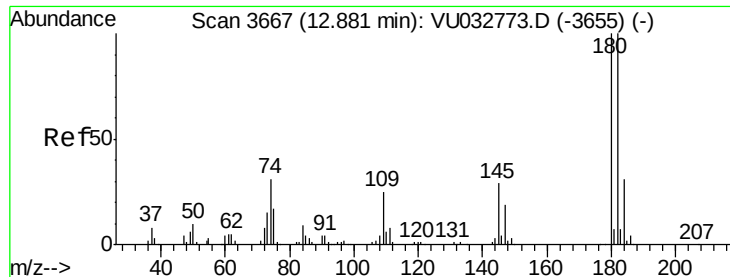


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

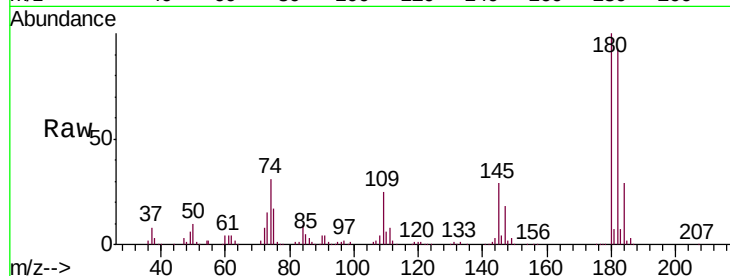




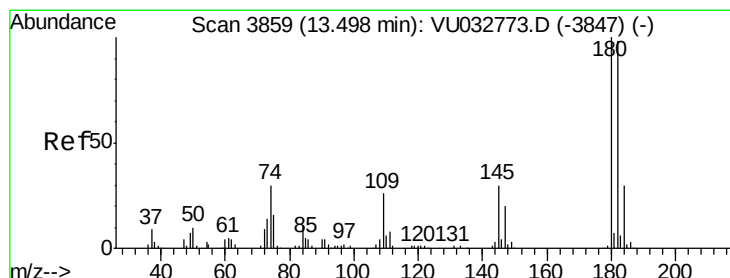
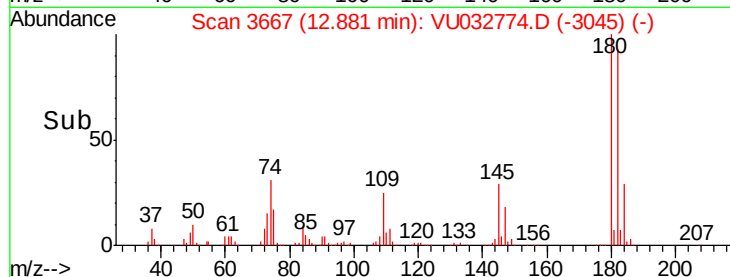
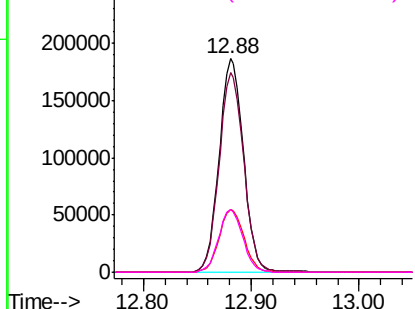
#67  
 1,3,5-Trichlorobenzene  
 Concen: 103.018 ug/L  
 RT: 12.88 min Scan# 3667  
 Delta R.T. 0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 293691 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.2  | 78.3  | 117.5  |
| 184      | 30.0  | 24.8  | 37.2   |
| 145      | 29.3  | 23.4  | 35.2   |

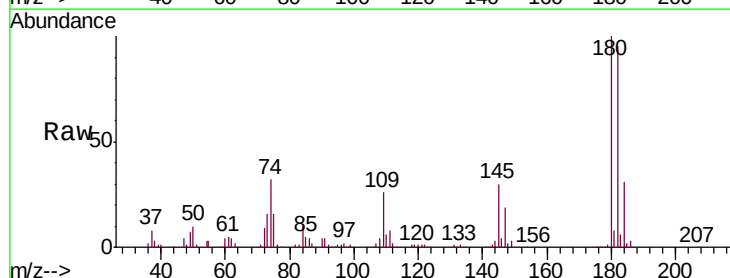


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

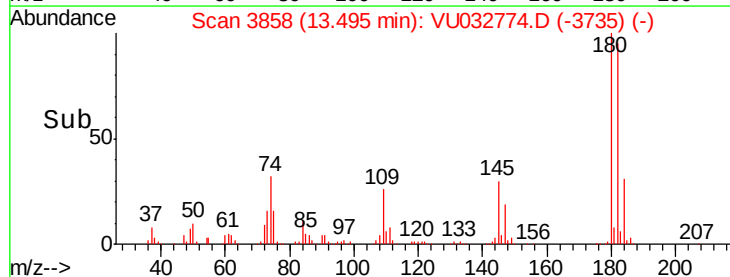
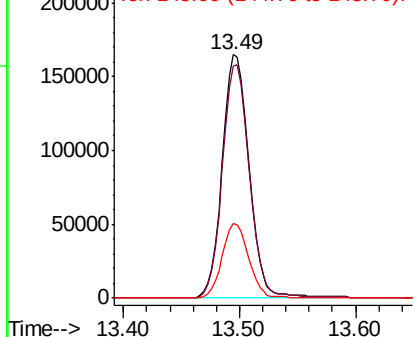


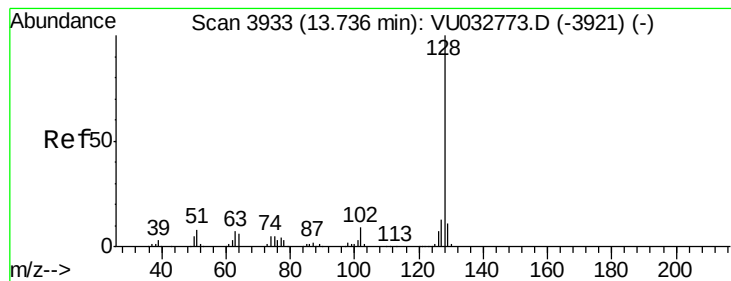
#68  
 1,2,4-trichlorobenzene  
 Concen: 110.219 ug/L  
 RT: 13.49 min Scan# 3858  
 Delta R.T. -0.00 min  
 Lab File: VU032774.D  
 Acq: 17 Jun 2019 11:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 265944 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.5  | 76.2  | 114.4  |
| 145      | 30.4  | 23.8  | 35.8   |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 115.325 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

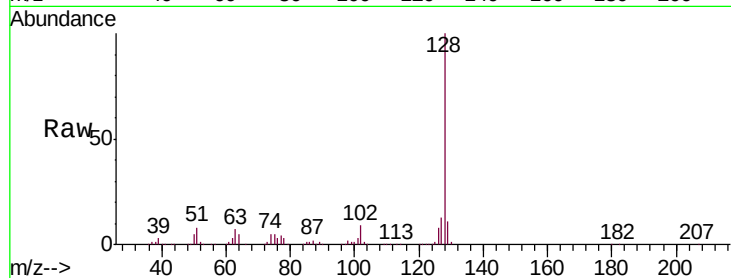
Tgt Ion:128 Resp: 872925

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

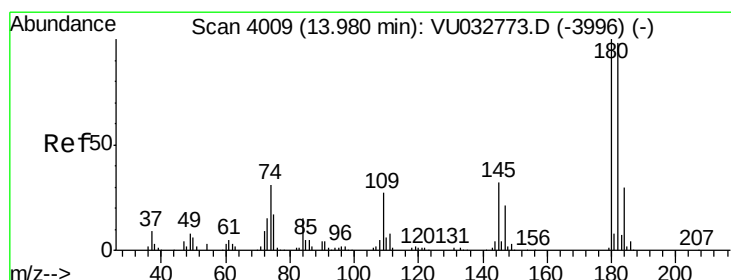
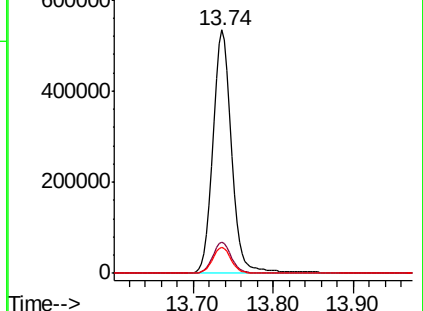
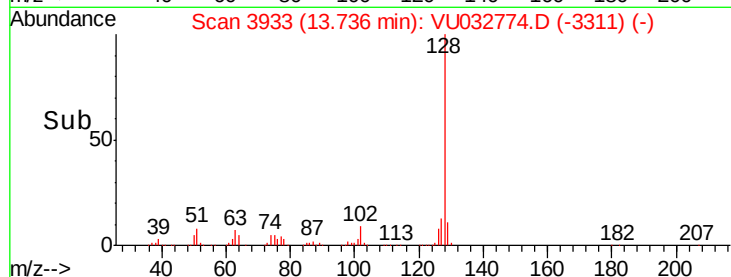
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 108.921 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.00 min

Lab File: VU032774.D

Acq: 17 Jun 2019 11:48

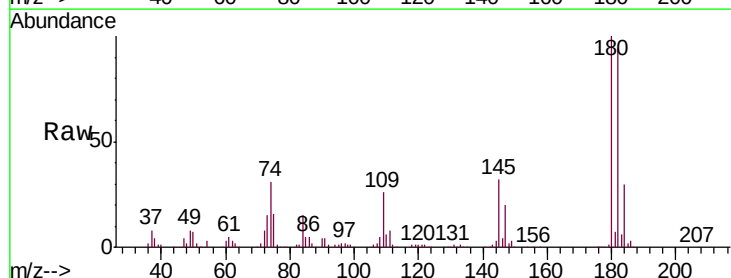
Tgt Ion:180 Resp: 275372

Ion Ratio Lower Upper

180 100

182 94.6 77.0 115.6

145 31.5 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

